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TENTH

ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

TO THE

COMMON COUNCIL

OF

THE CITY OF CHICAGO,

FOR THE MUNICIPAL FISCAL YEAR ENDING
MARCH 31, 1871.

UNIVERSITY PRESS, CAMBRIDGE, MASS.:
WELCH, BIGELOW, & CO.
1871.

Compliments of

E. S. CHESBROUGH, City Engineer.

CITY HALL.

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BOARD OF PUBLIC WORKS.

MEMBERS OF THE BOARD.

JOHN McARTHUR, Commissioner and President.
W. H. CARTER, Commissioner and Treasurer.
REDMOND PRINDIVILLE, Commissioner.
WILLIAM GOODING, } Members acting only in matters pertaining to cleansing Chicago River.
EDWARD B. TALCOTT, }

OFFICERS.

F. H. BAILEY, Secretary.
E. S. CHESBROUGH, City Engineer.

COMMISSIONERS' REPORT.

OFFICE OF THE BOARD OF PUBLIC WORKS,
CHICAGO, July 1, 1871.

To the Common Council of the City of Chicago:—

THE Board of Public Works submit herewith to your honorable body a report of their proceedings in the several departments of public work under their care, for the fiscal year ending March 31, 1871.

The term of office of Commissioners Gooding and Talcott, members of the Board acting in matters pertaining to the deepening of the Illinois and Michigan Canal, expired by limitation on the first day of May last; aside from this no change has occurred in the Board since the date of their last Annual Report.

In December last Mr. A. W. Tinkham, who had been the Secretary of the Board since its first organization, sent in his resignation on account of failing health. In testimony of the high appreciation in which the Board have held the services of Mr. Tinkham, and as an expression of their esteem for him as a gentleman, the following resolutions were adopted:—

Resolved, That, with sincere regrets for the circumstances which have called it forth, the resignation of Mr. A. W. Tinkham, Secretary of this Board, be accepted.

Resolved, That during his long connection with the Board — from its inception to the present time — he has proved himself a thorough, able, and efficient officer, fulfilling with marked ability and uniform kindness the duties of his office, and sustaining in all his intercourse, both with this Board and the public at large, the character of a courteous and affable gentleman.

Resolved, That in severing a tie of so long duration, the Board will ever cherish a remembrance of their pleasant association with him, and assure him of their heartfelt wish for his future prosperity and restoration to health.

The Board regret to say that the health of Mr. Tinkham continued to fail until the 4th of June last, when he died.

A very large amount of public work has been accomplished in the past year. The work on the Illinois and Michigan Canal and on the La Salle Street Tunnel has been pushed forward very vigorously, and it is the expectation of the Board that both of these important improvements will be fully completed during the present month.

The amount of street pavement which has been put down during the past year has been nearly equal to that laid in any previous year, while the extension of the water mains exceeds by about 2½ miles the amount heretofore laid in any one year. About fifteen miles of sewer mains have been constructed, giving accommodations to large districts not heretofore provided with drainage.

The further issue of bonds to meet the expense of public work has been prohibited by the adoption of the new State Constitution, so that the cost of all public improvements will now have to be provided for by taxation, from year to year. By recent act of the Legislature, the amount which is authorized to be raised by taxation is limited to one mill on a dollar for the extension of water pipes, and the same amount for the construction of sewers.

The demand for water and sewerage extension is as great now as ever heretofore, and the amount which can be realized from a tax levy, as above authorized, will be inadequate to meet this demand.

The average cost per year, for the last four years, for laying water pipe, is		$384,160.00
The estimated proceeds of a one-mill tax for this year is	$280,000.00	
The estimated surplus of earnings of the Water Works over the operating expenses and interest on water bonds is	50,000.00	
Amount available for water-pipe extension this year	$330,000.00	
The average cost per year, for the last four years, for constructing sewers, is		$381,922.00
The estimated proceeds of a one-mill tax, available for the construction of sewers this year, is	$280,000.00	

It will be perceived that, in comparison with the above yearly average, the amount which can be used for laying water pipes this

year is about $ 54,000 less, and for the construction of sewers about $ 102,000 less.

The authority which was vested in the city for opening, widening, and extending streets and alleys has been revoked by the adoption of the new Constitution, and all improvements of this class will have to be deferred until the necessary legislation can be obtained.

In their review of the various departments of work under their care the Board pursue the same order as in previous reports.

WATER WORKS.

THE Lake Tunnel continues to fully answer the purpose for which it was constructed. As no thorough examination can be made of it while it is in use, the Board cannot report positively as to its condition, but from the partial examination which has been made by submarine divers, they have reason to believe that it is in as good and sound condition as when first completed.

Since the 25th of March, 1867,—the day on which the tunnel was first put in use,—all the water which has been supplied by the Water Works has been drawn through it. The water has at all times been clear and free from impurities, and sufficiently cool for drinking purposes, excepting during the heat of summer.

The tunnels passing under the canal and river at Division Street, and under the river at Chicago Avenue, and at Adams Street, to accommodate the water mains passing to the west division of the city at these points, and the tunnel under the South Fork of the South Branch at Archer Avenue, for the water main passing to the southwestern portion of the city, have all been completed and are now in use.

The Board are of the opinion that this method of carrying the water pipes under the river by way of brick tunnels, thereby insuring them against injury from passing vessels, is not only the safest, but in the end the most economical.

The grounds at the Water Works have been enclosed by a substantial iron fence, and it is the intention of the Board to improve and ornament them in some appropriate way. The pavement of the streets around the grounds will be completed the present year.

When completed, as now designed, the Water Works will form one of the most attractive places in the city, especially to those who are interested in the working of massive machinery.

The new engine referred to in the last Annual Report is still in course of construction at Pittsburg, Penn., although a large portion of it has been completed and is now in place at the Water Works. It is expected that it will be fully completed and ready for use by the 1st of January next. This engine, when in operation,

will increase the pumping capacity of the Works thirty-six million gallons per day.

The estimated pumping capacity per day of the four engines is as follows: —

Engine erected in 1853, ...	7,000,000 gallons.
Engine erected in 1857, ...	10,000,000 gallons.
Engine erected in 1867, ...	18,000,000 gallons.
Engine to be erected in 1871, . .	36,000,000 gallons.

The consumption of water increases rapidly from year to year. The total amount of water pumped during the past year was 7,944,684,840 gallons, being nearly double the number of gallons pumped in 1867–68, and an increase of 1,143,538,120 gallons over that in 1869 and 1870.

WATER PIPES.

The amount of water pipe laid during the year ending March 31, 1871, is 34 miles and 1,207 feet, and is divided among the divisions of the city as follows: —

North Division, ...	42,628 feet.
South Division, ...	56,656 feet.
West Division, ...	81,443 feet.
Total, ...	180,727 feet.

Or $34\frac{1207}{5280}$ miles.

The above pipe was all manufactured and furnished the city by Messrs. S. Fulton & Co., Philadelphia, Penn.

The Board have entered into a contract with David M. Ford, Esq., of this city, to furnish the amount of pipe required the present year. Mr. Ford has made extensive additions to his foundry, and is now furnishing a superior quality of the various sizes of water pipes.

A water main, thirty-six inches in diameter, is now being put down from the Water Works along Pine, Superior, and North La Salle Streets, and through the passenger way of the La Salle Street Tunnel, to the intersection of Randolph Street.

This is the largest iron pipe ever laid in this city, and is put in for the purpose of increasing the supply of water in the South Division. It is the intention to extend it, at some future time, along La Salle Street to the Adams Street reservoir.

The twenty-four-inch main (to which reference was made on pages 6 and 7 of our Eighth Annual Report), designed to make a circuit of about thirteen miles from the Water Works, through the central portions of the North, South, and West Divisions, has been extended, until there now remains only about four miles to complete the circuit. When this, with the thirty-six-inch main above referred to, is completed, and the new engine in operation, it is believed that the quantity of water will be so increased, and the distribution so equalized, that no cause of complaint will exist of a short supply of water in any part of the city, until the full capacity of the present Lake Tunnel is reached.

According to the computations of the City Engineer, as may be seen by reference to his appended report, under the head of "Consumption of Water," the full capacity of the present tunnel will occasionally be reached during the summer of 1875.

All the preparations have been made, and the contract awarded, for the construction of a second tunnel, seven feet in diameter, commencing at the pumping works and terminating at the Lake Crib.

The commencement of the work, however, is delayed by an injunction suit, which is still pending. The capacity of the proposed tunnel would be something more than double that of the present one.

It is calculated by the Board, that if the work could be commenced at once, and carried forward without interruption, it could be completed in time to relieve any over demand upon the present tunnel.

The total number of miles of water pipe, of the various sizes, laid in the city to March 31, 1871, is about 272½.

FIRE HYDRANTS.

New fire hydrants were erected in the three divisions of the city during the year ending March 31, 1871, as follows: —

North Division,	63	
South Division,	74	
West Division,	121	
		258
Erected prior to March 31, 1870,		1,294
Whole number of hydrants in the city,		1,552

The Water Department has erected and maintained all of the above fire hydrants, and has furnished water for the same without charge.

These hydrants have cost about $170,000, besides an annual cost of about 12\frac{50}{100}$ each for their care and maintenance.

As hereinbefore stated, the means provided for the support and enlargement of the Water Works, which have heretofore been ample, will, under the recent law, be insufficient to meet the demand for water in districts not now supplied. The Board believe the extension of the water mains through such districts to be of paramount importance, and will accordingly defer the erection of more fire hydrants until this demand is supplied, or means provided for their cost in some other way.

In many other cities the water departments charge an annual rental for the fire hydrants, and an appropriation is made in the general tax levy to meet the same.

The Board believe this method to be just and proper, and would recommend its adoption here.

TAPPING OF WATER PIPES.

The public water mains have been tapped for the purpose of making service-pipe connections as follows: —

No. of ½-inch taps inserted,	2,738
No. of ⅝-inch taps inserted,	4,297
No. of ¾-inch taps inserted,	157
No. of 1-inch taps inserted,	134
Total during the year,	7,326

WATER-RATE COLLECTIONS.

The entire receipts from all water assessments and taxes collected, during the year, amounted to $539,180.19, being an increase over the receipts of the previous year of $62,211.95.

The total income of the Water Works from Feb. 15, 1854, (the day when the water was first introduced into buildings,) to January 1, 1862,	$744,244.19
Income for fifteen months ending April 1, 1863,	189,294.80
Income for year ending April 1, 1864,	192,246.39
Amount carried forward,	$1,125,785.38

Amount brought forward,	$ 1,125,785.38
Income for year ending April 1, 1865, . .	224,902.57
Income for year ending April 1, 1866, . .	253,114.49
Income for year ending April 1, 1867, . .	302,017.59
Income for year ending April 1, 1868, . .	338,929.28
Income for year ending April 1, 1869, . .	420,686.94
Income for year ending April 1, 1870, . .	476,968.24
Income for year ending April 1, 1871, . .	539,180.19
Total income to April 1, 1871, . .	$ 3,681,584.68

WATER METERS.

The prejudice which formerly existed against the use of meters is gradually giving place to a feeling of confidence in this method of determining the water assessment, and were it not for the heavy expense, the Board would like to introduce them more generally than they have done heretofore, especially in places where there is an unusual consumption of water.

The total number of meters in use is as follows: —

⅝ inch, ...	168
1 inch, ...	238
1½ inch, ...	94
2 inch, ...	89
3 inch, ...	64
4 inch, ...	4
Total, ...	657

CONDENSED STATEMENT OF RECEIPTS AND EXPENDITURES.

RECEIPTS.

Income from Water Rates, ...		$539,318.71

EXPENDITURES.

Expenses at Pumping Works, . . .	$81,272.67	
Salaries of Board and Officers, Office Rent and Expenses, and all Salaries and Expenses pertaining to the Water Office and the assessment and collection of Water Rates, ...	45,588.69	
Repairs of Pipes, Hydrants, etc., and miscellaneous Operating Expenses, . .	74,375.07	
Lake Tunnel, Keeper of Crib, use of Tugs, etc., ...	2,984.50	
Water Meters, Repairs, Depreciation, and Operating Expenses, ...	3,823.41	
Cost of Operating Shops, ...	3,928.74	
	$211,973.08	
Interest on Water Loan Bonds, including $4,578.77 transferred from Discount Account, ...	286,549.25	
		498,522.33
Surplus Revenue, ...		40,796.38
Less Income refunded, ...		138.52
		$40,657.86

COST OF ADDITIONS TO THE WORKS DURING THE YEAR.

$34\frac{1307}{5280}$ miles of 4, 6, 8, 12, 16, and 24 inch water mains as laid, including amount paid on account of tunnels under the river for water pipes,	$508,855.52
New engines and sundry miscellaneous expenses connected therewith,	68,739.68
Water Works Tower,	6,916.52
New Lake Tunnel,	14,736.20
New Inlet,	3,243.28
Total cost of additions during the year,	$602,491.20

COST OF WORKS TO APRIL 1, 1871.

The total cost of the Water Works, including all expenditures on work in progress, to April 1, 1871, amounts to $4,279,895.89.

MEANS BY WHICH THE WORKS HAVE BEEN PAID FOR.

Water Loan Bonds, 6 per cent,		$1,030,000.00
Water Loan Bonds, 7 per cent,		3,790,000.00
		4,820,000.00
Less discount,	$71,280.11	
Cash on hand,	1,007,467.87	
		1,078,747.98
		3,741,252.02
Balance from Water Rents,		538,643.87
		$4,279,895.89

SEWERAGE WORKS.

THE sewerage works continue to operate in an efficient manner, and are generally in a very excellent condition.

The construction of sewers, under the present system, commenced in the year 1856, since which time there have been laid $151\frac{2882}{5280}$ miles of sewers of the various sizes. This work has all been done under the immediate supervision of Mr. W. H. Clarke, Assistant City Engineer.

The laying of our sewers, on account of the very slight inclination which can be had, is a matter requiring great care and skill.

The amount of work which has been accomplished in the sewerage department, during the last year, is very large, and includes the construction of nearly fifteen miles of new sewers.

The following table exhibits the amount of work in the sewerage department completed May 6, 1861, the time when the Board assumed control, together with the amount accomplished each year since that time:—

Year.	Month.	Day.	No. of feet of Sewers laid.	No. of Catch Basins constructed.	No. of Man-holes constr'ed.	No. of Private Drains laid.	Cost of cleaning Sewers and Catch Basins.	Total Cost of constructing Sewers.
1861	May	6	283,586	1,174	2,102	2,194	$ 5,619.48	$ 665,188.46
1862	Jan.	1	2,826	18	33	243	5,474.03	3,617.31
1863	Apr.	1	15,676	72	66	365	4,793.35	57,264.51
1864	"	1	39,605	232	204	536	5,123.39	169,299.29
1865	"	1	25,021	188	183	512	9,364.68	87.221.48
1866	"	1	29,948	223	168	1,288	13,818.07	137,643.02
1867	"	1	48,127	327	271	3,722	28,445.16	225,564.53
1868	"	1	89,661	418	555	3,703	26,540.81	416,730.51
1869	"	1	47,841	480	293	3,261	26,954.06	197,152.92
1870	"	1	139,705	771	928	3,979	26,015.18	654,141.26
1871	"	1	78,166	626	468	5,187	21,464.30	258,664.70
			800,162 or $151\frac{2882}{5280}$ Miles	4,529	5,271	24,990	$173,612.51	$2,872,487.99

SEWERAGE REPAIRS.

Cost of repairs of sewers and catch basins, and of the renewal and repairs of man-hole covers, during the year, $ 10,954.74.

PRIVATE DRAINS CONNECTING WITH PUBLIC SEWERS.

In order to guard as far as possible against the necessity of taking up the street pavement when once laid, the Board have required all private drains, as well as water and gas pipes, to be laid in advance of the pavement, on all streets which have been paved during the past six years. As stated in the foregoing table, the number of private drains laid during the past year is 5,187, and they are distributed among the different divisions of the city as follows: —

North Division,	1,680
South Division,	938
West Division,	2,569
Total,	5,187

These drains are all laid under the supervision of the Board, by licensed drain-layers. Permits are issued in each case, and a charge is made sufficient to cover the cost of the junction with the main sewer, together with the expense of inspection and care of the work.

The amount received for private drain permits which have been issued is $ 17,217.11.

SEWERAGE EXPENSES, REPAIRS, AND INTEREST.

Interest on Sewerage Loan Bonds,	$ 195,768.91
Sewerage Sinking Fund, proportion of Tax of 1870,	46,603.80
Salaries, Office Rent, and Office and Miscellaneous Expenses,	20,258.15
Repairs of Sewers,	10,954.74
Cleaning of Sewers,	21,464.30
Total cost for the year	$ 295,049.90

SEWERAGE LOAN BONDS.

Six per cent Bonds outstanding March 31, 1871,	$ 87,000.00
Seven per cent Bonds outstanding March 31, 1871,	2,593,000.00
Total amount of Sewerage Bonds outstanding March 31, 1871,	$ 2,680,000.00

SEWERAGE SINKING FUND.

The condition of the Fund April 1, 1871, was as follows: —

Amount in the hands of the City Treasurer, and not yet applied to cancelling bonds, $ 10,455.43.

One hundred and twenty bonds were cancelled last year, making the total amount to March 31, 1871, purchased and cancelled, $ 320,000.

DEEPENING THE ILLINOIS AND MICHIGAN CANAL.

THE work of deepening the summit division of the Illinois and Michigan Canal, which was undertaken by the city, has been accomplished, and the locks at Bridgeport and Lockport are now being removed.

It is the expectation of the Board that, in a very short time, these locks and all other obstructions will be fully removed, and that by the middle of the present month of July the current of the river will be turned through the canal.

During the past year the work has been urged forward very vigorously, and the amount accomplished to April 1st exceeds that of the preceding year by $ 434,669.31, and is more than one third of the entire work.

The deepening of the canal was commenced by the city in the month of February, 1866, and has been prosecuted with few interruptions to the present time.

The cost of the work accomplished to the 1st of April, each year, is as follows: —

1866,	$ 20,255.25
1867,	144,501.89
1868,	326,843.13
1869,	560,121.37
1870,	748,023.09
1871,	1,182,692.40
Total cost to April 1, 1871, exclusive of interest,	$ 2,982,437.13

No more important and necessary public improvement has ever been undertaken by the city. The water of the river has become more and more filthy and offensive with the increase of our sewers having their outlet therein, and the absolute necessity of providing a way of carrying off this accumulation of filth has become more and more apparent. It is confidently believed that this will prove an adequate and permanent means of relief, so far as the main river and the South Branch are concerned.

The total cost of the work, as shown above to [redacted]

[illegible] discharge into the North Branch are now employing scows to convey it out into the lake, and the condition of the water in the river has in consequence been materially improved.

CLEANSING THE RIVER BY PUMPING.

The foul condition of the river during the summer of 1870 made it necessary to employ the pumps at Bridgeport most of the time during the season. With both pumps running at their full capacity, it was found impossible to get anything more than partial relief.

The cost of pumping during the year was $ 20,256.23.

CHICAGO HARBOR.

A SUFFICIENT depth of water has been maintained, without dredging, at the entrance of the harbor throughout the year.

It is hoped that the new piers and slips now constructed, or in process of construction at the mouth of the river, will prevent the formation of the sand-bars which were formerly deposited there, year after year, by the action of the water of the lake.

These bars were a great obstruction to navigation, and their removal was a heavy item of expense to the city every year.

The necessary depth of water in the channel of the river has been maintained at an expenditure for dredging, during the year, of $106,430.41.

The encroachment upon the river by the new pivot bridges constructed at Adams Street, at Polk Street, at Twelfth Street, at the P., F. W., & C. R. R. crossing, and at Twenty-second Street, is such as to seriously interfere with navigation, and, in consequence, jams of vessels are of frequent occurrence at these points, and especially at Twenty-second Street, and large claims have already been made against the city for detention and damage to vessels.

The liability of the city for claims of this sort is yet an open question; the Board are, however, of the opinion that the city should commence the widening and straightening of the river at all points where navigation is likely to be impeded by a narrow or crooked channel.

The Board have already commenced, and have made considerable progress with, the widening of the river at Adams Street and at Twenty-second Street, the expense thereof having been met by an appropriation by the Council for that purpose.

WASHINGTON STREET RIVER TUNNEL.

THE travel through the Washington Street Tunnel has not been interrupted during the year. The leaks, which were so troublesome when the roadway was first opened, have nearly all disappeared, and now the tunnel is in excellent condition, excepting the pavement of the roadway in the arches under the river. This is much worn, and will have to be renewed during the coming year.

On the 31st of March, 1871, an account was kept of the number of pedestrians and vehicles which passed through the tunnel, from six o'clock in the morning to seven o'clock at night, with the following result: —

Number of pedestrians, ...	7,231
Number of vehicles, ...	1,616

The pumps have had to be run to remove the accumulation of water from leakage and drainage on an average of five hours per week.

The total operating expenses for the year amount to $ 4,036.51.

LA SALLE STREET RIVER TUNNEL.

THE work upon this tunnel is substantially completed. All that remains to be done is the construction of the houses at the entrance of the passenger-way, the paving of the south approach, and the laying of the walk in the foot-way.

The putting in of a large water main through the passenger arch has somewhat retarded the opening of this part of the tunnel to the public.

The work has been prosecuted without interruption from the commencement to the present time.

Great credit is due the contractors, Messrs. Moss, Chambers, and McBean, for the skilful manner in which they have accomplished the work, and for their faithfulness in fulfilling all the requirements of their contract.

The structure is believed to be as good and substantial a work as can be found in the country.

The immediate supervision of the work, on the part of the city, has been intrusted to Mr. William Bryson, who also had the care of the construction of the Washington Street Tunnel.

The total amount expended upon the Tunnel to March 31, 1871, is	$ 455,372.28
Estimated amount necessary to complete the Tunnel, .	93,692.40
Total estimated cost, ...	$ 549,064.68

STREET WORK.

THE Board have laid about 19½ miles of wooden-block pavement during the past year, which, added to that previously laid, makes about 56½ miles of this kind of pavement in the city, most of which is in a very good condition, excepting Clark Street from the river to Polk Street, and Lake Street from the river to Clark Street, where the pavement has been laid about nine years. The great amount of traffic which has been done upon these streets has given the pavement a very severe test. It is now completely worn out in many places, and should be renewed at once.

In selecting streets for improvement, it has been a leading object with the Board to recommend only the pavement of the main or principal thoroughfares, with such cross or connecting streets as seemed necessary to distribute and equalize the travel. The result is shown in the fact that, although only about $87\frac{72}{100}$ miles out of the $533\frac{99}{100}$ miles of streets in the city have been improved, yet probably three fourths of the travel of the entire city is done upon improved streets.

A new kind of wooden-block pavement, differing in some respects from that heretofore laid, has been used to some extent upon our streets during the past year. All the wood of which it is composed is first subjected to what is termed "The Samuels Ironizing Process," for the purpose of preserving it, and rendering it impervious to wet and dry rot.

The flooring and blocks are laid in the usual way, and the spaces between the blocks are filled and well rammed with Joliet gravel. No tar or lake-shore gravel is used.

It is claimed that the preserving process will insure the wood against decay, and that the gravel will cement so as to be water-tight, and be hard enough to hold the blocks firmly in their places. The cost of this pavement is about the same as that laid in the usual way.

The test which has already been given to it shows it to possess considerable merit. The following streets have been paved in this way during the past year: —

Lake Street, from Clark Street to Wabash Avenue.
Twenty-first Street, from State Street to Calumet Avenue.
Twenty-fifth Street, from South Park Avenue to the Lake.
Twenty-sixth Street, from Cottage Grove Avenue to Wabash Avenue.
Prairie Avenue, from Cottage Grove Avenue to Thirtieth Street.
Calumet Avenue, from Cottage Grove Avenue to Twenty-ninth Street.

It is impossible to judge accurately of the merits of any wooden-block pavement during the first few years of its trial. Blocks laid in almost any of the methods now in use will stand well so long as they are nearly their full length. The true test of a wooden-block pavement is its durability and its evenness of surface when worn down to a thickness of two or three inches.

The Board have considerable confidence in what is called the "Bituminous, or Asphaltic Rock Pavement," a sample of which was laid here more than a year ago, and which has stood the test so far very well. It proves to be very durable, and were it not for the extra expense over the cost of wood, the Board would recommend its adoption upon some of our streets.

A report in detail, made by the Special Assessment Department, of the various street improvements undertaken by the Board, which have been paid for mainly by special assessments on property benefited, together with a statement of all other improvements made by the Board, and paid for in the same manner, is hereto appended.

SPECIAL ASSESSMENT DEPARTMENT.

CHICAGO, April 1, 1871.

MR. F. H. BAILEY,

Secretary of the Board of Public Works: —

SIR: Accompanying this, please find a tabular statement of the various street improvements, and their estimated cost, for which assessments have been made during the year ending April 1, 1871; also a summary, showing the cost of the various improvements in each division of the city, the number of miles of the various street improvements, the total number of lamp-posts, and the amounts for which special assessments have been made in each year, for the past ten years.

STATEMENT OF ASSESSMENTS FOR STREET OPENINGS AND WIDENINGS.

No. of Warrant.	Nature of Improvement.	Name of Street.	From	To	Amount of Assessment.
1080	Opening	Burnside st.	Present terminus	Fourteenth st.	$ 16,958.59
1085	"	McGlashen st.	Into	Archer ave.	443.24
1112	"	Campbell ave.	W. Madison st.	W. Twelfth st.	25,818.73
1113	"	Kossuth st.	E. l. of Murray's add.	Sanger st.	2,996.13
1115	"	W. Oak st.	Larrabee st.	Crosby st.	6,725.00
1120	Wid'ng & Open'g	Wabash ave.	Douglas pla.	Egan ave.	22,301.22
1213	Widening	State st.	Madison st.	Jackson st.	124,746.22
New 1550	Opening	Goethe st.	N. Clark st.	N. State st.	13,904.00
New 1554	Wid'g & Ext'nd'g	Seeley ave.	Van Buren st.	Tyler st.	2,678.00
New 1557	Opening	Mitchell st.	Waller st.	Halsted st.	1,067.51
New 1560	"	W. Jackson st.	Leavitt st.	Hoyne st.	2,198.39
New 1567	"	W. Adams st.	Present terminus	Western ave.	3,424.59
New 1568	Widening	Thirty-second st.	Forest ave.	Indiana ave.	2,145.50
New 1569	Opening	Milwaukee ave.	Present S. terminus	Canal & W. Lake.	44,215.68
				Total, ...	$ 269,617.80

STATEMENT OF ASSESSMENTS FOR ALLEY OPENINGS AND WIDENINGS.

No. of Warrant.	Nature of Improvement.	Alley running	Amount of Assessment.
1078	Opening	E. & W., Block 45, C. T. Subd. Sec. 7, T. 39 N. R. 14 E.	$ 3,773.94
1079	"	E. & W., Block 27, Carpenter's addition	1,839.95
1084	Widening	E. & W., Block 117, School Section addition	44,502.72
		Total, ...	$ 50,116.61

STATEMENT OF ASSESSMENTS FOR WOODEN-BLOCK PAVEMENT.

No. of War'nt.	Name of Street.	From	To	Amount of Assessment.
1082	Indiana st.	N. Clark st.	E. line of ass'rs div. of N. W. ¼, sec. 9.	$ 25,953.80
1083	Twenty-eighth st.	Michigan ave.	Wabash ave.	4,246.90
1116	Prairie ave.	Cottage Grove ave.	Thirtieth st.	38,179.74
1117	Michigan ave.	S. Water st.	River st.	4,365.96
1118	S. Water st.	Michigan ave.	Central ave.	1,281.81
1121	Twenty-sixth st.	Wabash ave.	S. Park ave.	19,913.34
1123	Taylor st.	Clark st.	Wells st.	12,411.31
1124	N. La Salle st.	Division st.	N. Clark st.	33,493.35
1125	Fulton st.	N. Clinton st.	N. Sangamon st.	46,730.00
1157	S. Park ave.	Twenty-ninth st.	Douglas place.	39,675.53
1161	Twenty-first st.	State st.	Calumet ave.	16,723.05
1168	Central ave.	S. Water st.	458 ft. south of S. Water st.	3,049.31
1170	W. Adams st.	Ashland ave.	Robey st.	27,028.46
1171	W. Indiana st.	N. Desplaines st.	Rucker st.	46,104.45
1172	Division st.	Clybourn ave.	Halsted st.	35,872.04
1175	W. Monroe st.	Canal st.	Halsted st.	15,144.90
1176	Twenty-fourth st.	Wabash ave.	Calumet ave.	15,229.93
1177	W. Chicago ave.	Milwaukee ave.	L. 7, B. 99, Elston's.	55,494.48
1178	W. Jackson st.	Canal st.	Halsted st.	15,118.96
1179	Loomis st.	W. Madison st.	W. Van Buren st.	16,559.83
1180	Michigan st.	Cass st.	St. Clair st.	12,162.82
1256	Sheldon st.	W. Madison st.	W. Randolph st.	8,389.16
1257	Larrabee st.	Clybourn ave.	North ave.	18,456.34
1259	Superior st.	Pine st.	St. Clair st.	3,583.42
1261	Depuyster st.	Desplaines st.	Halsted st.	8,104.48
1262	Market st.	Randolph st.	Lake st.	9,108.99
1264	Green st.	Madison st.	Fulton st.	21,678.55
1266	Larrabee st.	Chicago ave.	Clybourn ave.	64,472.37
1473	N. Market st.	Chicago ave.	Division st.	36,226.85
1477	Fourteenth st.	State st.	Clark st.	11,112.24
1482	Ontario st.	N. Clark st.	N. Dearborn st.	3,671.85
1486	W. Randolph st.	Halsted st.	Union park	37,180.64
1487	W. Monroe st.	Halsted st.	Aberdeen st.	18,795.21
1488	Sixteenth st.	State st.	Michigan ave.	4,348.15
1489	Alley run'g E. & W.	Bl. 117 School sec.	Add'n to Chicago.	5,141.78
1492	W. Washington st.	Ashland ave.	Leavitt st.	40,217.27
1493	Warren ave.	Ashland ave.	Leavitt st.	41,209.73
1495	W. Harrison st.	Halsted st.	Centre ave.	23,203.41
1526	Pine st.	Chicago ave.	Whitney st.	13,699.25
1528	Twenty-eighth st.	State st.	Wabash ave.	4,324.04
1529	N. Halsted st.	Milwaukee ave.	N. Br. Chi. river.	40,839.96
1530	Twenty-third st.	State st.	S. Park ave.	22,734.67
1531	Illinois st.	N. State st.	L. 2, B. 9, Kinzie's addition.	16,602.28
1532	W. Twelfth st.	Halsted st.	Centre ave.	39,233.75
1535	Milwaukee ave.	Elston ave.	W. Division st.	59,547.41
1536	Sedgwick st.	Chicago ave.	Division st.	43,009.67
1537	Canalport ave.	Halsted st.	Morgan st.	26,325.66
			Carried forward, ...	$ 1,105,957.10

No. of Warrant.	Name of Street.	From	To	Amount of Assessment.
		Brought	forward, . .	$ 1,105,957.10
1538	Madison st.	State st.	Michigan ave.	8,590.65
1539	North ave.	N. Wells st.	N. Dearborn st.	10,897.70
1540	Sedgwick st.	Division st.	North ave.	33,095.10
1541	Douglas place.	S. Park ave.	Ill. Cent. R. R.	23,368.15
1542	Green st.	W. Harrison st.	W. Madison st.	27,640.42
1543	Quincy st.	Clark st.	Market st.	22,010.24
1544	E. Pearson st.	Rush st.	S. L. 7, L. 10, B. 20, C.T.S., sec. 3.	8,441.07
New 1545	Archer ave.	State st.	Canal or Slip.	2,832.97
New 1547	W. Lake st.	Reuben st.	Western ave.	56,166.76
New 1551	North ave.	N. Wells st.	N. Br. Chi. river.	6,253.24
New 1553	Washington st.	State st.	Franklin st.	8,339.15
New 1555	Indiana st.	St. Clair st.	N. Clark st.	3,656.66
New 1556	Illinois st.	N. Wells st	N. State st.	823.24
New 1561	N. Dearborn st.	Division st.	North ave.	11,930.27
New 1562	W. Madison st.	Centre ave.	Robey st.	42,995.15
New 1564	Halsted st.	C. B. & Q. R. R.	Archer ave.	6,679.06
New 1565	Monroe st.	State st.	Clark st.	91.73
			Total, ...	$ 1,379,268.66

STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS.

No. of Warrant.	Nature of Improvement.	Name of Street.	From	To	Amount of Assessment.
1119	Grad'g & Cindering	Clybourn ave.	Clybourn place	Fullerton ave.	$8,370 50
1122	" "	Division st	N. Branch canal	N. Br. Chi. river	27,728.70
1158	" & Planking	Alley run'g E. & W.	Bl'k 24 Kinzie's	Add'n to Chicago.	998.85
1159	" "	Alley run'g E. & W.	Bl'k 8 Wolcott's &	Bl. 13 Kinzie's add.	1,533.50
1160	" "	Alley in Block 22	Kinzie's add. to	Chicago.	732.61
1169	" "	Alley run'g E. & W.	Bl'k 50 School sec.	Add'n to Chicago.	962.88
1173	" "	Alley run'g E. & W.	Bl'k 95 School sec.	Add'n to Chicago.	1,666.45
1174	Planking	N. Water st.	Rush st.	Water lot 33 Kinzie's add.	2,206.42
1181	Curb., Fill. & Plank.	Alley run'g N. & S.	Block 16	Herrington's add.	1,708.11
1182	" " "	Alley from 16th to	18th sts., between	Wab. & Mich. avs.	3,261.29
1183	" " "	Alley 3d av. & State	Van Buren st. &	Bl. 138 School sec.	839.87
1184	" " "	All alleys between	Blue Isl. ave. and Morgan st.	Hope and West Polk sts.	1,098.76
1185	" " "	Alley run'g N. & S.	Bl'k 5, Seaman's	Subd., Sec. 22	1,262.72
1186	" " "	Alley run'g N. & S.	3d av. & State st.	Harrison st. & Bl. 137 School sec.	829.32
1214	Grading & Gravel'g	Southwestern ave.	W. Twelfth st.	West City Limits	84,075.00
1215	" "	Michigan ave.	Twenty-ninth st.	Egan ave.	19,193.88
1258	Curb., Grad. & Pl'kg	Alley Bl. 135 & 136	School sec. add'n	to Chicago.	2,574.79
1260	Curbing & Filling	Huron st.	N Wells st.	N. Clark st.	7,627.55
1263	Filling & Planking	Alley run'g N. & S.	Bl. 28 School sec.	Add'n to Chicago	1,175.67
1265	Grad. & McAdam'g	Hawthorn ave.	Larrabee st.	21 ft. N. of Halsted st.	8,718.55
1474	" "	Belden ave.	N. Clark st.	N. Halsted st	9,199.05
1475	Curbing & Filling	Third ave.	Taylor st.	Twelfth st.	7,466.00
1476	" "	Meridian st.	Desplaines st.	Halsted st.	8,398.15
1478	" "	Huron st.	Townsend st.	Kingsbury st.	5,693.70
1479	Cindering	Elston ave.	W. Clybourn pla.	Fullerton ave.	8,778.20
1480	Curbing & Filling	Third ave.	Jackson st.	Taylor st.	21,851.85
1481	" "	Kingsbury st.	Chicago ave.	Erie st.	11,775.53
1483	" "	Franklin st.	Adams st.	Van Buren st.	7,827.52
1484	" "	Ontario st.	N. Clark st.	Kingsbury st.	23,617.89
1485	" "	Lydia st.	N. Desplaines st.	N. Halsted st.	7,564.38
1490	" "	Townsend st.	W. White st.	W. Oak st.	6,473.36
1491	" "	Superior st.	N. Clark st.	Kingsbury st.	31,502.42
1494	" "	Fourth ave.	Jackson st.	Taylor st.	22,869.70
1525	" & Cindering	Western ave.	Steele st.	Ill & Mich. Canal	6,582.87
1527	Curb., Grad. & Pl'kg	Alley run'g E. & W.	Block 41	Original Town	1,205.14
1533	" " & Grav'l'g	Twentieth st.	State st.	Ill. Central R. R.	16,098.12
1534	Grading & Gravel'g	Vincennes ave.	Douglas place	Egan ave.	7,870.29
New 1546	McAdamizing	W. Twelfth st.	Reuben st.	S.-Western ave.	4,663.52
New 1548	Curb., Grad. & McAd.	Chicago ave.	N. Clark st	N. Br. Chi. river	5,406.02
New 1549	Curbing & Filling	Jackson st.	State st.	Market st.	1,048.41
New 1558	Filling	Centre ave.	Mitchell st.	Lumber st.	401.94
New 1559	Curbing & Filling	W. Jackson st.	Canal st.	Halsted st.	881.25
New 1563	Curb., Grad. & Pl'kg	Alley run'g E. & W.	Bl. 25, School sec.	Add'n to Chicago	1,023.54
New 1566	Curbing & Filling	Fourth ave.	Taylor st.	Twelfth st.	384.59
1570	Grading & Gravel'g	Egan ave.	State st.	Lake ave.	12,986.34
				Total, ...	$408,135.20

STATEMENT OF ASSESSMENTS FOR THE ERECTION OF LAMP POSTS.

No. of War'nt.	No. Posts.	Name of Street.	From	To	Amount of Assessment.
1141	14	Belden ave.	Hurlbut st.	Burling st.	$ 494.00
1142	4	Erie st.	Pine st.	St. Clair st.	156.00
1143	23	Clybourn ave.	Larrabee st.	North ave.	773.00
1144	5	Hurlbut st.	Linden st.	North ave.	195.00
1145	6	Wisconsin st.	Sedgwick st.	N. Franklin st.	234 00
1146	4	Asylum place.	N. Clark st.	N. Franklin st.	156.00
1147	2	N. Market st.	Chicago ave.	Erie st.	78.00
1148	6	S. Water st.	Clark st.	River st.	285.50
1149	11	S. Park ave.	Twenty-sec'nd st.	Twenty-fourth st.	416.00
1150	3	Oak st.	Rush st.	Lake Michigan.	117.00
1151	4	Grant place.	Hurlbut st.	Sedgwick st.	156.00
1152	3	Van Buren st.	Clark st.	State st.	117.00
1153	4	Twenty-first st.	Prairie ave.	Calumet ave.	156.00
1154	9	Third ave.	Twelfth st.	Fourteenth st.	351.00
1155	17	Ohio st.	N. La Salle st.	Kingsbury st.	602.00
1156	2	Harrison st.	Clark st.	State st.	111.15
1396	4	Eugenie st.	N. Wells st.	N. La Salle st.	156.00
1397	38	W. Van Buren st.	Hoyne st.	Ashland ave.	1,268.00
1398	14	Michigan ave.	Thirty-third st.	Douglas place.	524.00
1399	18	W. Twelfth st.	Throop st.	Ashland ave.	648 00
1400	2	Desplaines st.	W. Harrison st.	W. Van Buren st.	94.50
1401	13	W. Washington st.	Leavitt st.	Western ave.	493.00
1402	2	Huron st.	N. La Salle st.	N. Clark st.	78.00
1403	15	Green st.	W. Lake st.	Milwaukee ave.	555.00
1404	6	Walnut st.	Robey st.	Hoyne st.	234.00
1405	8	Northern ave.	Johnson ave.	Cottage Grove ave.	312.00
1406	2	Twenty-fifth st.	Calumet ave.	Prairie ave.	78.00
1407	4	Throop st.	Harrison st.	Tyler st.	156.00
1408	21	N. Carpenter st.	W. Kinzie st.	Milwaukee ave.	741.00
1409	7	Paulina st.	W. Lake st.	W. Kinzie st.	273.00
1410	3	Thirtieth st.	Wabash ave.	Michigan ave.	117.00
1411	6	Foster st.	W. Harrison st.	W. Polk st.	234.00
1412	6	Green st.	W. Van Buren st.	W. Harrison st.	234.00
1413	3	Indiana st.	St. Clair st.	Pine st.	117.00
1414	5	Twentieth st.	Prairie ave.	Calumet ave.	195.00
1415	5	Twenty-first st.	Prairie ave.	Michigan ave.	195.00
1416	8	Bryant st.	Vincennes ave.	800 ft. west of Vincennes ave.	312.00
1417	4	Centre ave.	W. 22d st.	500 ft. S. of 22d st.	156.00
1418	3	Paulina st.	W. Madison st.	W. Monroe st.	117.00
1419	9	Fulton st.	N. Union st.	N. Canal st.	351.00
1420	5	Fulton st.	Hoyne st.	Leavitt st.	195.00
1421	2	Chestnut place.	N. La Salle st.	N. Clark st.	78.00
1422	3	Ann st.	W. Madison st.	W. Washington st.	117.00
1423	4	Robey st.	W. Jackson st.	W. Van Buren st.	156.00
1424	27	Twenty-second st.	Centre ave.	Ashland ave.	927.00
1425	5	Egan ave.	Ellis ave.	146 ft. west of Cottage Grove ave.	195.00
1426	6	Hubbard st.	N. Jefferson st.	Halsted st.	234.00
1427	5	Superior st.	Rush st.	St. Clair st.	195.00
1428	11	Hamilton st.	W. Monroe st.	W. Jackson st.	429.00
				Carried forward, ...	$ 14,562.15

No. of War'nt.	No. Posts.	Name of Street.	From	To	Amount of Assessment.
			Brought	forward, . . .	$ 14,562.15
1429	2	Huron st.	Townsend st.	Kingsbury st.	78.00
1430	12	Fulton st.	Reuben st.	Wood st.	462.00
1431	2	Honore st.	W. Madison st.	W. Monroe st.	78.00
1432	6	Vernon ave.	Douglas place	600 feet south of Douglas place	234.00
1433	6	Park ave.	Oakley st.	Western ave.	234.00
1434	14	Union st.	Mitchell st.	W. Twelfth st.	524.00
1435	3	Twenty-fifth st.	S. Park ave.	300 ft. east of South Park ave.	117.00
1436	39	N. Reuben st.	Fulton st.	Cornell st.	1,299.00
1446	2	Twenty-third st.	Prairie ave.	Calumet ave.	78 00
1447	4	Calumet ave.	Twentieth st.	350 feet north of Twentieth st.	156.00
1448	11	Seeley ave.	W. Madison st.	W. Van Buren st.	429.00
1449	26	Douglas place.	Michigan ave.	Stanton ave.	896.00
1450	15	W. Madison st.	Western ave.	Rockwell st.	555.00
1451	6	Superior st.	Kingsbury st.	Sedgwick st.	234.00
1452	3	Chestnut place.	N. State st.	N. Dearborn st.	117.00
1453	6	W. Harrison st.	Canal st.	Halsted st.	367.20
1454	4	Paulina st.	W. Adams st.	230 feet west of West Adams st.	140.00
1455	9	Larrabee st.	Division st.	Clybourn ave.	351.00
1456	34	W. Jackson st.	Hoyne st.	Ashland ave.	1,144.00
1457	5	Colfax ave.	Douglas place	500 feet north of Douglas place.	195.00
1458	21	W. Taylor st.	Halsted st.	Centre ave.	741.00
1459	5	Orchard st.	300 ft. south of Belden ave.	400 feet north of Belden ave.	195 00
1460	14	Canalport ave.	Halsted st.	Morgan st.	524.00
1461	22	Cornell st.	Milwaukee ave.	Reuben st.	772.00
1462	5	Tyler st.	Throop st.	Centre ave.	195.00
1463	12	W. Indiana st.	Reuben st.	Noble st.	462.00
1464	19	W. Indiana st.	Reuben st.	N. Lincoln st.	679.00
1465	2	Cedar st.	Rush st.	540 feet east of Rush st.	78.00
1466	21	W. Adams st.	Ashland ave.	Winchester ave.	741.00
1467	4	Prairie ave.	Thirtieth st.	Thirty-first st.	156.00
1468	17	Erie st.	N. Market st.	N. Br. Chi. river.	540.00
1469	2	Ontario st.	N. La Salle st.	N. Wells st.	78.00
1470	8	Oak ave.	Stanton ave.	Vincennes ave.	312.00
1471	13	W. Madison st.	Centre ave.	Robey st.	771.75
1472	6	W. Adams st.	Hoyne st.	Robey st.	234.00
1496	99	Ashland ave.	Twenty-sec'nd st.	Tyler st.	3,159.00
1497	3	Warren ave.	S.-Western ave.	Ashland ave.	117.00
1498	18	Carroll st.	N. Ada st.	N. Carpenter st.	648.00
1499	3	Depuyster st.	Halsted st.	Desplaines st.	117.00
1500	5	Loomis st.	W. Adams st.	W. Madison st.	195.00
1501	15	Sedgwick st.	Chicago ave.	Wendell st.	555.00
1502	7	S.-Western ave.	W. Randolph st.	W. Madison st.	273 00
1503	2	Carl st.	N. Wells st.	N. La Salle st.	78.00
1504	1	W. Monroe st.	Green st.	Halsted st.	39.00
1505	4	Madison st.	Wabash ave.	Michigan ave.	156.00
1506	5	N. Water st.	N. Wells st.	N. Dearborn st.	195.00
1507	2	Douglas place.	Lake ave.	Ill. Cent. R. R.	78.00
1508	10	Kingsbury st.	Chicago ave.	150 ft. S. of Erie st.	390.00
			Carried	forward, ...	$ 34,729.10

No. of War'nt.	No. Posts.	Name of Street.	From	To	Amount of Assessment.
			Brought	forward, . . .	$ 34,729.10
1509	16	Oak st.	N. Franklin st.	Larrabee st.	586.00
1510	10	Taylor st.	State st.	Wells st.	390.00
1511	38	Hubbard st.	Sangamon st.	Reuben st.	1,268.00
1512	32	Coolidge st.	Ashland ave.	Blue Island ave.	1,082.00
1513	25	S. Park ave.	Thirty-first st.	Douglas place.	865.00
1514	7	Fulton st.	N. Sangamon st.	N. Halsted st.	273.00
1515	5	Illinois st.	Rush st.	St. Clair st.	195.00
1516	5	Meridian st.	Halsted st.	Desplaines st.	195.00
1517	9	N. Halsted st.	Lake st.	Indiana st.	415.80
1518	18	Division st.	Larrabee st.	Canal bridge	634.50
1519	21	Division st.	N. Branch canal	N. Br. Chi. river.	741.00
1520	7	Third ave.	Taylor st.	Twelfth st.	273.00
1521	8	Quincy st.	Market st.	Clark st.	312.00
1522	1	W. Monroe st.	Morgan st.	Sangamon st.	39.00
1523	17	Mohawk st.	Clybourn ave.	North ave.	602.00
1524	2	North ave.	N. Clark st.	N. Dearborn st.	78.00
New 1552	13	Milwaukee ave.	Noble st.	W. Division st.	142.60
				Total, ...	$ 42,821.00

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS.

No. of Warrant.	Name of Street.	From	To	Amount of Assessment.
1240	Sherman st.	Harrison st.	Polk st.	$ 140.70
1241	Canal st.	Sixteenth st.	Eighteenth st.	181.50
1242	Erie st.	Pine st.	Chicago river.	1,917.62
1243	N. Market st.	Kinzie st.	Chicago ave.	645.38
1244	Aberdeen st.	W. Madison st.	W. Harrison st.	1,417.00
1245	Clybourn ave.	Division st.	North ave.	626.04
1246	Sangamon st.	Fulton st.	Milwaukee ave.	615.49
1247	Illinois st.	N. Wells st.	N. State st.	171.52
1248	Griswold st.	Jackson st.	Van Buren st.	282.24
1249	Chicago ave.	N. Clark st.	Pine st.	414.65
1250	Quincy st.	Clark st.	State st.	17.25
1251	Union st.	W. Madison st.	Milwaukee ave.	345.82
1252	Canalport ave.	Canal st.	Halsted st.	294.10
1253	Indiana st.	N. Clark st.	St. Clair st.	447.88
1254	Sherman st.	Jackson st.	Van Buren st.	316.20
1255	Ohio st.	N. Clark st.	Kingsbury st.	149.10
1365	Huron st.	N. Wells st.	Townsend st.	569.36
1366	Desplaines st.	W. Van Buren st.	W. Harrison st.	356.50
1367	W. Twelfth st.	Halsted st.	Beach st.	969.36
1368	S. Water st.	Michigan ave.	Central ave.	98.25
1369	Michigan ave.	S. Water st.	Rush st. bridge.	425.75
1370	Park ave.	Ashland ave.	Leavitt st.	1,887.02
1371	Division st.	N. Halsted st.	Larrabee st.	1,270.00
1372	Fourteenth st.	Clark st.	State st.	262.00
1373	Twenty-first st.	State st.	Michigan ave.	327.50
1374	Archer ave.	Ogden slip	Halsted st.	869.40
1375	Twenty-first st.	Michigan ave.	Calumet ave.	327.50
1376	North ave.	La Salle st.	Chicago river.	3,310.13
1377	Michigan st.	Cass st.	Water st.	1,428.75
1378	Division st.	N. Clark st.	Clybourn ave.	452.50
1379	N. Wells st.	Kinzie st.	The river.	261.00
1380	W. Madison st.	Robey st.	Western ave.	3,046.83
1381	Kinzie st.	N. Clark st.	Rush st.	982.50
1382	Dearborn st.	Monroe st.	Jackson st.	459.73
1383	Larrabee st.	Clybourn ave.	North ave.	393.00
1384	Halsted st.	W. Lake st.	W. Indiana st.	474.76
1385	W. Harrison st.	Canal st.	Halsted st.	1,222.51
1386	W. Madison st.	Centre ave.	Robey st.	6,404.42
1387	Indiana st.	Clark st.	Indiana st. bridge.	322.00
1388	W. Van Buren st.	Halsted st.	Loomis st.	2,020.00
1389	Huron st.	N. Clark st.	N. Wells st.	196.50
1390	Carl st.	N. Wells st.	N. La Salle st.	65.50
1391	W. Polk st.	Halsted st.	Ellsworth st.	1,133.98
1392	S. Park ave.	Twenty-ninth st.	Douglas place.	6,826.50
1393	W. Madison st.	Halsted st.	Centre ave.	1,282.26
1394	Sedgwick st.	Division st.	North ave.	1,270.00
1395	S. Park ave.	Twenty-second st.	Twenty-ninth st.	3,204.97
			Total, ...	$ 50,102.97

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES.

No. of Warrant.	Name of Street.	From	To	Amount of Assessment.
1162	Sedgwick st.	Chicago ave.	Division st.	$ 890.40
1163	Illinois st.	N. Wells st.	N. State st.	317.44
1164	Taylor st.	Clark st.	State st.	214.80
1165	Indiana st.	N. Clark st.	St. Clair st.	649.40
1166	Blue Island ave.	Harrison st.	Twelfth st.	1,135.29
1167	Adams st.	Market st.	Michigan ave.	1,244.32
1187	Sedgwick st.	Division st.	North ave.	1,947.50
1188	Larrabee st.	Clybourn ave.	North ave.	824.50
1189	Park ave.	Ashland ave.	Leavitt st.	2,808.40
1190	Washington st.	State st.	Franklin st.	606.65
1191	Sherman st.	Jackson st.	Van Buren st.	102.00
1192	Twenty-second st.	State st.	200 feet west of Grove st.	4,009.50
1193	Third ave.	Jackson st.	Taylor st.	1,980.00
1194	Warren ave.	Ashland ave.	Leavitt st.	2,458.25
1195	N. La Salle st.	Division st.	N. Clark st.	5,146.00
1196	Quincy st.	State st.	Clark st.	119.55
1197	Canalport ave.	Canal st.	Halsted st.	497.84
1198	Canal st.	W. Sixteenth st.	W. Eighteenth st.	141.10
1199	Indiana st.	Clark st.	East of Chicago ave. & south of Erie st.	552.00
1200	W. Polk st.	Halsted st.	Ellsworth st.	1,199.52
1201	Larrabee st.	Chicago ave.	Clybourn ave.	2,688.00
1267	Erie st.	Chicago river	Pine st.	2,178.46
1268	Aberdeen st.	W. Madison st.	W. Harrison st.	1,375.90
1269	W. Chicago ave.	Milwaukee ave.	L. 7, B. 99 Elston's.	4,440.50
1270	Jackson st.	Canal st.	Halsted st.	528.60
1271	Centre ave.	W. Madison st.	W. Van Buren st.	2,755.00
1272	Union st.	W. Madison st.	Milwaukee ave.	1,250.96
1273	Griswold st.	Jackson st.	Van Buren st.	515.93
1274	Illinois st.	N. Wells st.	Kingsbury st.	2,552.00
1275	N. Wells st.	Division st.	N. Clark st.	2,052.20
1276	Sheldon st.	W. Madison st.	W. Randolph st.	403.20
1277	Twenty-first st.	Michigan ave.	Calumet ave.	559.20
1278	Huron st.	Clark st.	Townsend st.	1,147.06
1279	Prairie ave.	Cottage Grove ave.	Twenty-ninth st.	1,821.00
1280	Jackson st.	Michigan ave.	Market st.	2,134.68
1281	Sixteenth st.	State st.	Michigan ave.	275.80
1282	Prairie ave.	Twenty-ninth st.	Thirtieth st.	858.00
1283	Green st.	W. Harrison st.	W. Madison st.	2,835.90
1284	Twenty-sixth st.	Wabash ave.	South Park ave.	2,185.50
1285	W. Adams st.	Ashland ave.	Robey st.	5,233.80
1286	North ave.	N. Wells st.	N. Clark st.	522.50
1287	Hubbard st.	Jefferson st.	Rucker st.	2,746.20
1288	Franklin st.	Adams st.	Van Buren st.	1,345 00
1289	Taylor st.	Clark st.	Wells st.	709.20
1290	Fourth ave.	Jackson st.	Taylor st.	1,572.50
1291	Centre ave.	W. Van Buren st.	W. Harrison st.	688.00
1292	Canalport ave.	Halsted st.	W. Twenty-second.	1,533.00
1293	W. Harrison st.	Halsted st.	Centre ave.	2,300.20
1294	Carl st.	N. Wells st.	N. La Salle st.	258.00
			Carried forward, ...	$ 76,310.75

No. of Warrant.	Name of Street.	From	To	Amount of Assessment.
		Brought	forward, ...	$ 76,310.75
1295	Kinzie st.	N. Clark st.	Rush st.	1,116.00
1296	Division st.	Clybourn ave.	Larrabee st.	351.20
1297	S. Park ave.	Twenty-second st.	Douglas place.	11,444.20
1298	Michigan ave.	S. Water st.	River st.	652.40
1299	Green st.	W. Madison st.	Fulton st.	1,448.70
1300	Michigan st.	Cass st.	St. Clair st.	806.40
1301	W. Twelfth st.	Halsted st.	Ashland ave.	5,956.80
1302	Indiana st.	Desplaines st.	N. Br. Chi. river.	175.60
1303	Fourteenth st.	State st.	Clark st.	178.50
1304	Fulton st.	N. Clinton st.	N. Sangamon st.	2,946.30
1305	Depuyster st.	Desplaines st.	Halsted st.	1,164.80
1306	Huron st.	Kingsbury st.	Townsend st.	1,183.60
1307	Fourth ave.	Taylor st.	Twelfth st.	791.20
1308	Third ave.	Taylor st.	Twelfth st.	760.20
1309	Calumet ave.	Cottage Grove ave.	Twenty-ninth st.	3,154.00
1310	Loomis st.	W. Madison st.	W. Van Buren st.	1,238.40
1311	Bryan place.	W. Randolph st.	W. Lake st.	369.60
1312	Douglas place.	S. Park ave.	Ill. Cent. R. R.	4,382.40
1313	Madison st.	State st.	Michigan ave.	502.70
1314	W. Washington st.	Ashland ave.	Leavitt st.	5,459.50
1315	W. Monroe st.	Canal st.	Centre ave.	2,638.20
1316	Ontario st.	N. Clark st.	Kingsbury st.	2,559.60
1317	Division st.	Larrabee st.	N. Halsted st.	516.00
1318	Twenty-first st.	State st.	Michigan ave.	395.10
1319	Superior st.	N. Clark st.	Kingsbury st.	2,188.80
1320	Twenty-eighth st.	Wabash ave.	Michigan ave.	338.80
1321	N. Market st.	Chicago ave.	Division st.	3,241.20
1322	W. Randolph st.	Halsted st.	Union park.	4,920.00
1323	Superior st.	Pine st.	St. Clair st.	306.60
			Total, . . .	$ 137,497.55

STATEMENT OF ASSESSMENTS FOR LAYING GAS SERVICE PIPES.

No. of Warrant.	Name of Street.	From	To	Amount of Assessment.
1437	Aberdeen st.	W. Madison st.	W. Harrison st.	$ 858.00
1438	Desplaines st.	W. Van Buren st.	W. Harrison st.	247.20
1439	W. Harrison st.	Canal st.	Halsted st.	336.00
1440	W. Polk st.	Canal st.	Ellsworth st.	422.40
1441	Union st.	W. Madison st.	Hubbard st.	448.80
1442	W. Twelfth st.	Canal st.	Halsted st.	928.80
1443	W. Van Buren st.	Halsted st.	Loomis st.	1,147.60
1444	W. Polk st.	Halsted st.	Canal st.	602.80
1445	Canalport ave.	Canal st.	Halsted st.	1,570.80
			Total, . . .	$ 6,562.40

SUMMARY.

TOTAL ASSESSMENTS FOR STREET OPENINGS AND WIDENINGS.

North Division,	$ 20,629.00	
South Division,	169,590.90	
West Division,	79,397.90	
		$ 269,617.80

TOTAL ASSESSMENTS FOR ALLEY OPENINGS AND WIDENINGS.

North Division,	$	
South Division,	44,502.72	
West Division,	5,613.89	
		50,116.61

TOTAL ASSESSMENTS FOR WOODEN-BLOCK PAVEMENT, INCLUDING CURBING AND FILLING.

North Division,	4.96	miles,	$ 381,801.32
South Division,	4.92	"	277,079.64
West Division,	9.53	"	720,387.70
			1,379,268.66

TOTAL ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS.

North Divison,	$ 160,362.85	
South Division,	130,944.39	
West Division,	116,827.96	
		408,135.20

TOTAL ASSESSMENTS FOR ERECTION OF LAMP POSTS.

North Division,	255	posts,	$ 9,310.50	
South Division,	200	"	7,582.65	
West Division,	712	"	25,927.85	
Total,	1167	posts,		42,821.00

TOTAL ASSESSMENTS FOR CONSTRUCTION OF PRIVATE DRAINS.

North Division,	$ 14,893.43	
South Division,	13,557.99	
West Division,	21,651.55	
		$ 50,102.97

TOTAL ASSESSMENTS FOR LAYING OF WATER SERVICE PIPES.

North Division,	$ 33,994.86	
South Division,	42,853.13	
West Division,	60,649.56	
		$ 137,497.55

TOTAL ASSESSMENTS FOR LAYING OF GAS SERVICE PIPES.

North Division,		
South Division,		
West Division,	$ 6,562.40	
		6,562.40

TOTAL ASSESSMENTS FOR CONSTRUCTION OF SIDEWALKS.

North Division,	$ 1,525.97	
South Division,	6,348.62	
West Division,	7,839.11	
		15,713.70
Total amount of assessments for the North, South, and West Divisions,		$ 2,359,835.89

NORTH DIVISION.

Total amount of assessments for street improvements,	$ 622,517.93	
Total amount payable out of Appropriation Fund on account of same,	111,468.60	
Total estimated cost of street improvements,		733,986.53

SOUTH DIVISION.

Total amount of assessments for street improvements,	$ 692,460.04	
Total amount payable out of Appropriation Fund on account of same,	44,560.03	
Total estimated cost of street improvements,		737,020.07

WEST DIVISION.

Total amount of assessments for street improvements,	$ 1,044,857.92	
Total amount payable out of Appropriation Fund on account of same,	155,107.45	
Total estimated cost of street improvements,		1,199,965.37
Total estimated cost of street improvements in the North, South, and West Divisions,		$ 2,670,971.97

TO BE PAID FROM APPROPRIATION FUND FOR STREET IMPROVEMENTS IN THE

North Division,	$ 111,468.60	
South Division,	44,560.03	
West Division,	155,107.45	
Total,		$ 311,136.08

Total number of lamp posts provided for by assessments: —

IN THE NORTH DIVISION.

From April 1, 1870, to April 1, 1871,	255	
Posts erected prior to April 1, 1870,	1,213	
		1,468

IN THE SOUTH DIVISION.

From April 1, 1870, to April 1, 1871,	200	
Posts erected prior to April 1, 1870,	1,763	
		1,963

IN THE WEST DIVISION.

From April 1, 1870, to April 1, 1871,	712	
Posts erected prior to April 1, 1870,	2,412	
		3,124
Total number of lamp posts in the city,		6,555

The following is a statement of the amount of work done and to be done on account of street improvements provided for by the assessments of the year ending April 1, 1871: —

Whole number of cords of Curb Wall,	$25,031\frac{77}{100}$
Whole number of lineal feet of Curbstone,	$103,964\frac{33}{100}$
Whole number of cubic yards of Filling,	$404,822\frac{68}{100}$
Whole number of cubic yards of Excavating and Grading,	$47,298\frac{22}{100}$
Whole number of square yards of Wooden-Block Paving,	$457,667\frac{44}{100}$
Whole number of miles of Wooden-Block Pavement,	$19\frac{41}{100}$
Whole number of cubic yards of Gravelling,	$15,472\frac{3}{100}$

During the past year there have been prepared and sent to the Council the following number of ordinances in connection with the special assessment business of the Board: —

For Street Improvements,	93
For Alley Improvements,	27
For Miscellaneous Improvements,	41
For Sidewalks,	207
For the erection of Lamp Posts,	128
For the construction of Private Drains,	73
For laying Water Service Pipe,	94
For laying Gas Service Pipe,	22
For Street and Alley Openings and Widenings,	25
Total,	710

The following list shows the total amount of assessments made in each year by the Board of Public Works since it was created in 1861: —

For the year ending April 1, 1862,	$ 42,635.49	
For the year ending April 1, 1863,	46,493.67	
For the year ending April 1, 1864,	389,169.31	
For the year ending April 1, 1865,	103,576.35	
For the year ending April 1, 1866,	802,574.56	
For the year ending April 1, 1867,	317,206.18	
For the year ending April 1, 1868,	1,354,436.48	
For the year ending April 1, 1869,	2,395,683.03	
For the year ending April 1, 1870,	2,836,852.48	
For the year ending April 1, 1871,	2,359,835.89	
Total for ten years,		$ 10,648,463.44

LINEAL FEET OF WOODEN-BLOCK PAVEMENT IN

North Division,	66,195	
South Division,	105,385	
West Division,	129,533	
Lineal feet of Wooden-Block Pavement in the North, South, and West Divisions,		301,113
Number miles of Wooden-Block Pavement in the North, South, and West Divisions,	57.02	

LINEAL FEET OF BOULDERS IN

North Division,	1,250	
South Division,	19,900	
West Division,		
Lineal feet of Boulders in the North and South Divisions,		21,150
Number miles of Boulders in the North and South Divisions,	3.77	

LINEAL FEET OF McADAM IN

North Division,		14,950	
South Division,		22,040	
West Division,		27,560	
Lineal feet of McAdam in the North, South, and West Divisions,			64,550
Number miles of McAdam in the North, South, and West Divisions,	12.23		

LINEAL FEET OF GRAVELLING IN

North Division,		8,150	
South Division,		43,610	
West Division,			
Lineal feet of Gravelling in the North and South Divisions,			51,760
Number miles of Gravelling in the North and South Divisions,	9.80		

LINEAL FEET OF CINDERING IN

North Division,		9,975	
South Division,		9,920	
West Division,		6,020	
Lineal feet of Cindering in the North, South, and West Divisions,			25,915
Number miles of Cindering in the North, South, and West Divisions,	4.90		

LINEAL FEET OF CURBING IN

North Division,		155,890	
South Division,		247,638	
West Division,		338,937	
Lineal feet of Curbing in the North, South, and West Divisions,			742,465
Total number of miles of Streets in the city,			533.99
Total number of miles Improved,			87.72
Total number of miles Unimproved,			446.27

Respectfully submitted,

H. J. JONES,

In charge of Special Assessments.

SIDEWALKS.

THERE are now constructed about 561 miles of sidewalks in the city. All of these, with the exception of a very small fraction, are composed of pine plank. Those walks which have been constructed within the last three or four years are mostly in very good order, while the older ones are becoming much decayed, and require a great deal of care to keep them in a safe condition.

With all the care which the Board are able to exercise, accidents, resulting from defective walks, are of common occurrence, and it seems to be almost a matter of necessity that some material more durable than wood should be adopted for sidewalk purposes.

A considerable amount of "bituminous rock sidewalk" has been laid here within the last two years, and seems to give very good satisfaction. Its cost is about double that of wood, but it is much more desirable, and on account of its durability is probably the cheaper.

In places where the present surface of the street corresponds very nearly with the established grade, the Board would recommend its adoption.

The report of the sidewalk superintendent, showing the walks constructed and reconstructed under the orders of the Common Council, during the past year, is presented herewith.

F. H. BAILEY, ESQ.,

Secretary Board of Public Works:—

SIR: The undersigned hereby reports the result of the business of the Sidewalk Department for the year ending March 31, 1871. First. The ordinances passed by the Common Council, and the present condition of the walks in each locality. Second. The amount necessary to assess and build under contract, and concluding with a table exhibiting the number of feet constructed and reconstructed by order of Council and Board of Public Works.

NORTH DIVISION ORDINANCES.

Side.	Street.	From	To	Built.	Except.
Both	Seelah st.	Hobbie st.	Division st.	All.	800 feet.
West	Stone st.	Division st.	Scott st.	"	
North	Division st.	N. State st.	Stone st.	"	
West	Clybourn ave.	North ave.	Sheffield ave.	"	
East	Mohawk st.	Centre st.	Wisconsin st.	"	
East	Church st.	Blackhawk st.	North ave.	"	
West	St. Clair st.	Michigan st.	Superior st.	"	
South	Centre st.	Racine ave.	Halsted st.	"	
West	Dayton st.	Centre st.	Clay st.	"	
North	Sophia st.	Orchard st.	Fremont st.	"	
South	Sophia st.	Larrabee st.	Halsted st.	"	
Both	Knerr st.	Clybourn ave.	Sheffield ave.	"	
Both	Menomonee st.	Clark st.	Sedgwick st.	"	
Both	Menomonee st.	Sedgwick st.	Larrabee st.	"	
South	Blackhawk st.	Sedgwick st.	Hurlbut st.	"	
Both	Hurlbut st.	Blackhawk st.	Clybourn ave.	"	400 feet.
Both	McArthur st.	Schiller st.	North ave.	"	
East	Clybourn ave.	Webster ave.	Reuben st.	"	
East	Reuben st.	Clybourn ave.	Fullerton ave.	"	
West	Fremont st.	Willow st.	Webster ave.	"	172 feet.
Both	Lincoln place.	Sophia st.	Webster ave.	"	
Both	Goethe st.	N. Clark st.	N. Dearborn st.	"	
Both	Lownes court.	North ave.	South terminus.	"	
East	Dayton st.	Sophia st.	Clay st.	"	300 feet.
West	Burling st.	Sophia st.	Webster ave.	"	500 feet.

SOUTH DIVISION ORDINANCES.

Side.	Street.	From	To	Built.	Except.
East	Wentworth ave.	Thirty-first st.	Thirty-third st.	All.	
West	Auburn st.	Attica st.	Douglas place.	"	
North	Crittenden ave.	S. Park ave.	Rhodes ave.	"	
North	F st.	Halsted st.	Laurel st.	"	
West	Arnold st.	Twenty-seventh st.	Thirty-first st.	"	
South	Archer ave.	Chicago river	Jones st.	"	
South	McGregor st.	Wentworth ave.	Butler st.	"	
North	Hickory st.	Deering st.	Chicago river.	"	
East	Colfax ave.	Thirty-third st.	Douglas place.	"	
South	Thirty-first st.	Cottage Grove ave.	I. C. R. R.	"	
East	Wabash ave.	Thirty-second st.	Thirty-third st.	"	
Both	Arnold st.	Douglas place	Wahpanseh ave.	"	
East	Burnside st.	Thirty-fourth st.	Douglas place.	"	
Both	Lowe st.	Esplanade st.	Douglas place.	"	
Both	Cottage place.	Thirty-first st.	S. line Cottage Grove ave.	"	
West	Shurtleff ave.	Napoleon place, (Twenty-eighth st.)	Whitehouse place, (Thirtieth st.)	"	
Both	Wallace st.	Twenty-sixth st.	Napoleon place.	"	
Both	Thirtieth st.	Butterfield st.	Wentworth ave.	"	

Side.	Street	From	To	Built.	Except.
West	Forest ave.	Douglas place	627 feet south.		not opened.
East	Prairie ave.	Wahpanseh ave.	Douglas place.	All.	
South	Twenty-fifth st.	Stewart ave.	Wentworth ave.	"	
South	Alexander st.	Wentworth ave.	Stewart ave.	"	
East	Main st.	Thirty-first st.	Wrong st.	"	
North	Archer ave.	Beers st.	Western ave.	"	
Both	Onondaga st.	Laurel st.	Halsted st.	"	
Both	Fox st.	Springer st.	Thirty-first street.	"	
North	Douglas place.	Halsted st.	Laurel st.	"	
North	Twenty-eighth st.	Wabash ave.	State st.	"	
South	Thirty-first st.	State st.	Indiana ave.	"	
Both	Twentieth st.	State st.	Grove st.	"	
Both	Butterfield st.	Thirty-seventh st.	Egan ave.	"	
Both	Burnside st.	Thirty-seventh st.	Egan ave.	"	
West	Mary st.	Archer ave.	Hickory st.	"	
South	Twenty-ninth st.	State st.	Wentworth ave.	"	360 feet.
Both	Thirty-second st.	Cottage Grove ave.	Prairie ave.	"	
East	Forest ave.	Thirty-first st.	Douglas place.	"	
West	McGlashen st.	Archer ave.	Twenty-second st.	"	
West	Forest ave.	Thirty-fifth st.	Thirty-ninth st.		not opened.
Both	Calumet ave.	21st st. to a point	350 ft. n. of 20th st.	"	100 feet.
Both	Twentieth st.	Prairie ave.	Calumet ave.	"	
South	Thirty-seventh st.	Vincennes ave.	S. Park ave.	"	193 feet.
South	Douglas place.	Halsted st.	Wentworth ave.		not built.
East	Ullman st.	n. line out lot 7	South line out lot 11, section 32.		not built.
Both	Archer ave.	Halsted st.	S. Branch river.		not built.
Both	Archer ave.	Ogden slip	Halsted st.	"	
West	Prairie ave.	Thirty-fifth st.	Thirty-sixth st.		not built.
East	Prairie ave.	Thirty-seventh st.	Thirty-ninth st.	"	
Both	Ellis ave.	Douglas place	Egan ave.	"	600 feet.
North	Thirty-seventh st.	Cottage Grove ave.	S. Park ave.		not built.
South	Sheridan place.	Purple st.	400 feet west.	"	
North	Napoleon st.	Wallace st.	Hanover st.		not built.
East	Garibaldi st.	Swift place	Whitehouse place.	"	
South	Thirty-first st.	Clark st.	Wentworth ave.	"	
East	Dashiel st.	Douglas place	Egan ave.	"	300 feet.
Both	Farrell st.	Thirty-first st.	Lyman st.	"	500 feet.
South	E st.	Halsted st.	Tucker st.	"	300 feet.
North	Ray st.	S. Park ave.	Prairie ave.	"	300 feet.
Both	Whitehouse place.	Garibaldi st.	Wentworth ave.	"	150 feet.

WEST DIVISION ORDINANCES.

Side.	Street.	From	To	Built.	Except.
Both	Margaret st.	Catharine st.	Mitchell st.	All.	
South	Front st.	Fifth st.	Dix st.	"	
West	Dix st.	Chicago ave.	Front st.	"	
Both	Carroll st.	Halsted st.	Reuben st.	"	
West	Noble st.	N. Division st.	Bradley st.	"	
East	Temple st.	Second st.	Chicago ave.	"	
Both	Commercial st.	North ave.	Wabansia ave.	"	
Both	Diller st.	Kinzie st.	Fulton st.	"	300 feet.

Side.	Street.	From	To	Built.	Except.
North	Rebecca st.	Reuben st.	Wood st.	All.	
Both	W. Washington st.	Stanton st.	California st.	"	1,000 feet.
East	Erie st.	Halsted st.	Paulina st.	"	
Both	Warren ave.	Stanton st.	California st.	"	1,000 feet.
West	Centre ave.	Twenty-second st.	C., B. & Q. R. R.	"	
East	Wood st.	Twenty-second st.	Harbine st.	"	
South	North ave.	Milwaukee ave.	California st.	"	
West	Wood st.	Iowa st.	Chicago ave.	"	
North	Rice st.	Wood st.	Lincoln st.	"	
South	Iowa st.	Wood st.	Lincoln st.	"	
North	Chicago ave.	Paulina st.	Wood st.	"	
East	Hart st.	W. Kinzie st.	Hubbard st.	"	
South	Adams st.	Wood st.	Robey st.	"	
South	Rawson st.	McHenry st.	Elston ave.	"	
West	Lincoln st.	Fourth st.	Chicago ave.	"	
South	Monroe st.	Western ave.	West terminus.	"	
North	Sixteenth st.	Centre ave.	Blue Island ave.	"	
North	Canalport ave.	Halsted st.	Brown st.	"	2,000 feet.
East	Baldwin st.	Kinzie st.	Hubbard st.	"	
South	Evans st.	Fisk st.	Centre ave.	"	
North	Armitage road.	Wood st.	Elston ave.	"	
South	Chicago ave.	Robey st.	Western ave.	"	
South	Kinzie st.	Paulina st.	Wood st.	"	
North	Erie st.	Wood st.	Hoyne st.	"	
North	Second st.	Wood st.	Hoyne st.	"	
North	Cook st.	Paulina st.	Reuben st.	"	
West	Campbell ave.	W. Harrison st.	W. Jackson st.	"	
Both	Desplaines st.	W. Polk st.	W. Twelfth st.	"	600 feet.
Both	Foster st.	W. Polk st.	W. line Block 30, S. S. addition.	"	300 feet.
South	Sampson st.	Ashland ave.	Wood st.	"	
East	Brown st.	Mitchell st.	Wright st.	"	
South	W. Jackson st.	Honore st.	Lincoln st.	"	
East	Lincoln st.	W. Van Buren st.	W. Jackson st.	"	
South	W. Adams st.	Leavitt st.	Western ave.	"	
East	Bishop court.	Madison st.	Washington st.	"	
Both	Mitchell st.	Waller st.	Halsted st.	"	
West	Hoyne st.	North ave.	Le Moyne st.	"	
Both	Hoyne st.	Harrison st.	Lexington st.	"	
West	Paulina st.	Van Buren st.	York st.	"	
Both	Monroe st.	Leavitt st.	Western ave.	"	
South	Second st.	Paulina st.	Hoyne st.	"	
Both	W. Twelfth st.	Halsted st.	S. Branch river.	"	
North	McGrath st.	Hoyne st.	Alley 120 feet east of Leavitt st.	"	120 feet.
East	Union place.	Twenty-second st.	Union st.	"	
South	Clarinda st.	Reuben st.	Wood st.	"	
South	Ferdinand st.	Leavitt st.	Oakley st.	"	300 feet.
West	Robey st.	W. Van Buren st.	W. Harrison st.	"	
North	Courtland st.	Holstein st.	N. Leavitt st.		not built.
West	Holstein st.	Wilmot st.	Milwaukee ave.	"	300 feet.
East	Brown st.	Mitchell st.	Maxwell st.		not built.
North	Division st.	Houston st.	a point on a line with the east side of Lincoln st.	"	600 feet.
Both	W. Polk st.	Halsted st.	Clinton st.	"	
Both	Sangamon st.	Fulton st.	W. Erie st.	"	
West	Wood st.	Division st.	Milwaukee ave.	"	

Side.	Street.	From.	To	Built.	Except.
North	W. 22d st.	Blue Island ave.	Laflin st.	All.	
West	Wood st.	Tyler st.	Van Buren st.	"	
West	Wood st.	Iowa st.	Division st.	"	
East	Throop st.	Mitchell st.	C., B., & Q. R. R.	"	
North	W. Sixteenth st.	Halsted st.	Brown st.	"	
West	Western ave.	Lake st.	Grand ave.	"	
Both	Wayman st.	Jefferson st.	Halsted st.	"	100 feet.
West	Leavitt st.	Milwaukee ave.	Courtland st.	"	
West	Marshfield ave.	W. Van Buren st.	W. Jackson st.	"	75 feet.
Both	Blackhawk st.	Reuben st.	Ridgeville road.	"	48 feet.
South	Henry st.	Loomis st.	Laflin st.	"	
North	Fulton st.	Seymour st.	California st.	"	
Both	W. Lake st.	Paulina st.	Western ave.	"	
Both	W. Madison st.	Centre ave.	Western ave.	"	5,000 feet.
Both	Ruble st.	W. Eighteenth st.	Canalport ave.	"	
West	Wood st.	Chicago ave.	Augusta st.	"	
North	W. Erie st.	Rucker st.	Noble st.	"	
North	W. Jackson st.	Leavitt st.	Western ave.	"	
North	W. Adams st.	Loomis st.	Ashland ave.	"	
South	W. Erie st.	Wood st.	Hoyne st.	"	300 feet.
South	Fig st.	Reuben st.	Milwaukee ave.	"	
North	Fourth st.	Noble st.	Reuben st.	"	
West	Browne st.	W. Indiana st.	Fourth st.	"	
Both	Aberdeen st.	W. Madison st.	W. Harrison st.	"	600 feet.
Both	Milwaukee ave.	Reuben st.	Wood st.	"	400 feet.
West	Coventry st.	Wabansia ave.	Bloomingdale road	"	
East	Rumsey st.	Emily st.	Augusta st.	"	
Both	W. Jackson st.	Rockwell st.	Cutler st.		not built.
East	Elston ave.	Fullerton ave.	City limits.		partly b'lt.
West	Fleetwood st.	Elston ave.	Redfield st.		partly b'lt.
Both	Carpenter st.	George st.	North terminus.		not built.
North	George st.	Carpenter st.	Fifth st.	"	
Both	Diller st.	W. Indiana st.	Fourth st.		⅔ built.
South	Park ave.	Ashland ave.	Western ave.	"	
North	Park ave.	N. Reuben st.	Western ave.	"	
West	Holstein st.	S. Park st.	Wilmot st.		not built.
Both	Fisk st.	Evans st.	W. 22d st.	"	
West	Robey st.	Fulton st.	Kinzie st.		not built.
South	Depot place.	Reuben st.	Ada st.		not built.
East	Ridgeville road.	Milwaukee ave.	W. North ave.		partly b'lt.
Both	Laflin place.	Coolidge st.	W. Sixteenth st.	"	200 feet.
Both	Brown st.	Maxwell st.	W. Sixteenth st.	"	300 feet.
North	Evans st.	May st.	Centre ave.	"	
North	Armitage road.	Elston ave.	Mendell st.	"	125 feet.
East	N. Green st.	W. Indiana st.	Milwaukee ave.		not built.
Both	Mitchell st.	Paulina st.	Wood st.		not built.
North	Wabansia ave.	Elston ave.	McHenry st.	"	
Both	Crossing st.	Ridgeville road	Elston ave.	"	500 feet.
East	Reuben st.	W. Division st.	Milwaukee ave.	"	100 feet.
Both	Mautene court.	Milwaukee ave.	South terminus.		partly b'lt.
North	W. Jackson st.	Ashland ave.	S. Western ave.	"	500 feet.
North	Pratt st.	N. Green st.	Milwaukee ave.		not built.

SIDEWALKS ASSESSED AND BUILT BY CONTRACT

NORTH DIVISION.

No. of War'nt.	Side Street.	Street.	From	To	No. of Feet.	Co
1098	Both	Clybourn ave.	Division st.	North ave.	149	$ 1
1110	North	Division st.	Sedgwick st.	Clybourn ave.	76	
1134	West	Clybourn ave.	North ave.	Sheffield ave.	72	
1136	East	North Clark st.	Sophia st.	Asylum place.	157	
1140	East	Mohawk st.	Centre st.	Wisconsin st.	146	
1234	West	Crosby st.	Larrabee st.	Division st.	100	
1342	West	Dayton st.	Centre st.	Clay st.	24	
				Carried forward, . .	. .	$ 3

The above sidewalks are constructed of pine plank.

SOUTH DIVISION.

No. of War'nt.	Side Street.	Street.	From	To	No. of Feet.	Co
			Brought	forward, . .	. .	$ 3
1086	West	Halsted st.	Egan ave.	Archer ave.	264	
1096	Both	Moonaway pl.	Wahpanseh av.	Douglas place.	462	1
1097	North	30th st	Clark st.	Wentworth ave.	125	
1099	South	Lyman st.	Deering st.	Lock st.	75	
1101	Both	Garibaldi st.	26th st.	29th st.	370	1
1103	South	Crippen st.	Indiana ave.	State st.	108	
1104	West	Arnold st.	31st st.	33d st.	150	
1107	South	Ray st.	Prairie ave.	South Park ave.	125	
1109	South	Wahpanseh av.	Stewart ave.	Halsted st.	132	
1111	South	29th st.	Michigan ave.	State st.	192	
1114	East	Benson st.	31st st.	Lancaster st.	269	
1127	East	Vernon ave.	Douglas pl.	Wahpanseh ave.	216	
1133	North	Cayuga st.	Halsted st.	Laurel st.	321	1
1135	Both	Alexander st.	Wentworth ave.	Stewart ave.	490	1
1137	South	Egan ave.	Lake ave.	Cot. Grove ave.	110	
1139	East	Wentworth ave.	31st st.	33d st.	125	
1202	East	Wabash ave.	32d st.	33d st.	50	
1203	East	Burnside st.	34th st.	Douglas place.	96	
1206	Both	Elgin st.	Stewart ave.	West terminus.	90	
1207	Both	30th st.	Butterfield st.	Wentworth ave.	120	
1209	West	Arnold st.	27th st.	31st st.	119½	
1210	North	21st st.	Stewart ave.	Purple st.	100	
1211	North	23d st.	Wentworth ave.	Buddan st.	150	
1212	East	Grove st.	Archer ave.	18th st.	239	
1217	Both	Stewart ave.	Archer ave.	Grove st.	276	
1220	Both	Butterfield st.	37th st.	Egan ave.	100	
				Carried forward, . . .		$ 1,9

No. of War'nt.	Side Street.	Street.	From	To	No. of Feet.	Cost.
			Brought	forward, . .	. .	$ 1,937.74
1223	Both	Burnside st.	37th st.	Egan ave.	375	123.75
1224	Both	Lowe st.	Esplanade st.	Douglas place.	482	159.06
1228	South	Archer ave.	Lime st.	Quarry st.	40	13 20
1231	Both	Cottage pl.	31st st., S. line	Cot. Grove.	354	116.82
1232	South	Archer ave.	Chicago river	Jones st.	70	23.10
1233	West	Auburn st.	Attica st.	Douglas place.	389	128.37
1236	North	F st.	Laurel st.	Halsted st.	125	41.25
1237	Both	Onondaga st.	Laurel st.	Halsted st.	644	212.52
1325	Both	32d st.	Cot. Grove ave.	Prairie ave.	318	104.94
1347	Both	20th st.	State st.	Grove st.	248	81.84
1350	South	25th st.	Stewart ave.	Wentworth ave.	295	97.35
1354	South	21st st.	Stewart ave.	State st.	75	24.75
1356	Both	Fox st.	Springer st.	31st st.	213	70.29
1358	North	Douglas place.	Laurel st.	Halsted st.	578½	190.90
1359	West	Mary st.	Archer ave.	Hickory st.	107	35.31
1361	East	Forest ave.	31st st.	Douglas place.	447	147.51
				Carried forward, . . .		$ 3,508.70

The above walks are six feet wide, and constructed of pine plank two inches thick.

WEST DIVISION.

No. of War'nt.	Side Street.	Street.	From	To	No. of Feet.	Cost.
			Brought	forward, . .	. .	$ 3,508.70
1087	North	W. Harrison st.	Campbell ave.	Western ave.	82	21.06
1088	East	Osborn st.	W. Indiana st.	Fourth st.	208	68.81
1092	South	W. Harrison st.	Leavitt st.	Western ave.	66	21.78
1093	Both	Stanton st.	W. Madison st.	W. Lake st.	427	140.91
1102	South	Fourth st.	Lincoln st.	Robey st.	144	47.52
1105	Both	Laflin st.	W. Harrison st.	W. Taylor st.	272	89.76
1106	West	Ridgeville road.	Milwaukee ave.	Bloom'gdale rd.	434	143.22
1108	South	McGrath st.	Hoyne st.	West terminus.	72	23.76
1126	West	Western ave.	W. Madison st.	W. Harrison st.	302	100.51
1128	North	Harbine st.	Lincoln st.	Campbell st.	75	24.75
1129	West	Blair st.	Canalport ave.	South terminus.	48	16.32
1130	East	N. Reuben st.	Blackhawk st.	North ave.	24	7.92
1138	Both	W. Jackson st.	Western ave.	Rockwell st.	315	103.95
1204	South	W.VanBuren st.	Western ave.	Rockwell st.	203	66.99
1205	North	W. Sixteenth st.	Centre ave.	Blue Island ave.	25	8.25
1208	South	Wilcox st.	Western ave.	California st.	209	68.97
1216	Both	Commercial st.	North ave.	Wabansia ave.	196	64.68
1219	West	Dix st.	W. Chicago ave.	Front st.	50	16.50
1221	North	Rice st.	Wood st.	Lincoln st.	75	24.75
1225	East	Lincoln st.	W.VanBuren st.	W. Jackson st.	72	23.76
1229	North	Cook st.	Paulina st.	Reuben st.	48	10.56
1235	West	Wood st.	Iowa st.	W. Chicago ave.	50	16.50
1238	Both	Margaret st.	Catharine st.	Mitchell st.	168	55.44
1326	Both	Ada st.	Fourth st.	W. Indiana st.	25	8.25
1327	Both	Hoyne st.	W. Harrison st.	Lexington st.	350	115.50
1328	North	W. 22d st.	Centre ave.	Ashland ave.		
				Carried forward, . . .		$ 4,799.12

No. of War'nt.	Side Street.	Street.	From	To	No. of Feet.	Cost.
			Brought	forward, . .	. .	$4,799.12
1329	South	W. Chicago ave.	Robey st.	Western ave.	583	192.39
1332	West	Noble st.	W. Division st.	Bradley st.	92	30.36
1334	East	Dixon st.	W. North ave.	Blanche st.	48	15.84
1335	East	Baldwin st.	W. Kinzie st.	Hubbard st.	72	15.84
1337	South	Ferdinand st.	Lincoln st.	Leavitt st.	747	166.34
1339	Both	Carroll st.	N. Halsted st.	N. Reuben st.	900	297.00
1341	North	Second st.	Wood st.	Hoyne st.	743	245.19
1343	West	Hoyne st.	W. North ave.	LeMoyne st.	129	42.57
1346	South	Sampson st.	Ashland ave.	Wood st.	270	89.10
1351	South	Rawson st.	McHenry st.	Elston ave.	140	46.20
1357	South	W. Erie st.	N. Halsted st.	Paulina st.	240	79.20
1360	North	Armitage road.	Wood st.	Elston ave.	702	216.15
1364	East	Hunt st.	W. Kinzie st.	Hubbard st.	318	70.84
1345	Both	Warren ave.	Stanton st.	California st.	447	147.51
1344	Both	Washington st.	Stanton st.	California st.	1594	526.02
1349	North	Erie st.	Wood st.	Hoyne st.	288	95.04
1333	West	Campbell ave.	Harrison st.	Jackson st.	99	32.67
1324	Both	S. Western ave.	Madison st.	Robey st.	1381	455.73
				Total, . . .		$7,563.11

Nearly all walks in this Division are six feet wide, and constructed of pine plank, two inches thick, and nailed with 30d nails.

A TABLE EXHIBITING THE NUMBER OF FEET OF SIDEWALK CONSTRUCTED OF DIFFERENT WIDTHS, IN EACH DISTRICT, DURING THE FISCAL YEAR.

Number of Districts in each Division.	Sidewalks Constructed in New Localities.								Reconstructed New in Old Localities.									Yearly Totals in each District.
	4 feet.	6 feet.	7 feet.	8 feet.	12 feet	14 feet.	16 feet.	25 feet.	4 feet.	6 feet.	7 feet.	8 feet.	10 feet.	12 feet.	14 feet.	16 feet.	25 feet.	
First District, N. Div.	200	4,605	. .	. .	. .	400	. .	. .	. .	5,585	. .	3,215	675	200	10,485	14,696	. .	40,011
Second " N. "	. .	24,452	. .	. .	. .	1,662	. .	. .	540	6,499	. .	. .	250	160	11,204	3,383	. .	48,150
First " S. "	. .	. .	. .	. .	. .	. .	. .	. .	. .	2,460	. .	450	400	1,054	2,995	2,223	. .	9,582
Second " S. "	1,024	1,819	. .	. .	119	. .	332	. .	400	8,099	. .	1,753	4,715	987	2,530	3,331	20 ft. w 50	25,109
Third " S. "	. .	59,364	60	604	. .	. .	. .	. .	. .	5,688	200	350	65	575	800	2,200	. .	69,906
First " W. "	600	54,843	. .	5,007	. .	40	. .	1,638	. .	11,498	. .	. .	. .	797	3,789	2,309	. .	81,046
Second " W. "	1,950	9,775	. .	. .	. .	. .	. .	. .	. .	16,088	. .	1,492	665	1,603	9,222	11,109	525	51,855
Third " W. "	. .	29,086	100	103	. .	. .	. .	. .	. .	14,712	. .	2,535	. .	210	10,585	1,830	. .	59,161
Fourth " W. "	200	21,255	. .	. .	. .	. .	. .	. .	4,145	10,933	. .	215	. .	185	4,548	1,055	. .	42,536
	3,974	205,199	160	5,714	119	2,102	332	1,638	5,085	81,512	200	10,010	6,770	5,721	56,108	42,136	525	
								219,238										427,355

219,238 feet, equal to $41\frac{1}{2}$ miles.
Add reported amount 1870 = $561\frac{1}{10}$ miles.

427,355 feet Constructed and Reconstructed of Plank Walks in the year ending April 1, 1871, and 6,287 feet of stone and concrete.

J. L. HANCHETTE, Supt.

BRIDGES.

THE city bridges crossing the river are 27 in number, and are mostly in good condition. They are all truss bridges, revolving upon a centre pier, and giving a passage-way for vessels upon either side, when open.

The work of the past year includes a new bridge at Twenty-second Street, together with several others constructed in place of old bridges which, from age and wear, had become unsound and unsafe for use.

On the 31st of March, 1871, an account was kept of the number of pedestrians and vehicles passing over the various bridges from six o'clock in the morning to seven o'clock in the evening, and the result of that account is given in the following table, together with some other interesting items concerning the river bridges.

It should be stated that the items in the column of "original cost" vary very much according to the amount of work done upon the piers and abutments. In some cases, these had to be constructed entirely new; in others, but little was required to be done.

TABULAR STATEMENT CONCERNING BRIDGES.

Name.	Location.	Description.	By whom constructed.	When constructed.	Length of Bridge.	Original Cost.	Cost of tending Last Year.	13 Hours' Travel.	
								Pedestrians.	Vehicles.
Clybourn avenue	North Branch	Wooden braces and chords	Fox & Howard	1862	140 ft.	$ 1,000.00	$ 500.00	940	745
North avenue	" "	" " " "	N. Chapin & Co.	1865	145 "	3,700.00	780.00	2,432	926
Division street	" "	" " " Iron chords	Fox & Howard	1869	176 "	15,794.84	940.00	900	130
N. Halsted street	" "	" " " chords	" "	1866	140 "	7,000.00	1,040.00	2,885	325
Chicago avenue	" "	" " " Iron chords	" "	1867	175 "	26,700.00	1,360.00	5,040	855
Erie street	" "	" " " " "	" "	1871	200 "	30,000.00	1,440.00	Not in	use.
Indiana street	" "	" " " " "	" "	1869	163 "	48,800.00	1,440.00	3,010	1,080
Kinzie street	" "	" " " " "	" "	1870	170 "	15,850.00	1,580.00	16,118	4,344
Rush street	Main River	" " " chords	" "	1864	211 "	8,900.00	2,300.00	10,385	2,342
State street	" "	" " " "	" "	1864	184 "	32,000.00	1,960.00	11,070	2,525
Clark street	" "	" " " Iron chords	Thomas Mackin	1866	180 "	13,800.00	1,940.00	38,795	4,250
Wells street	" "	" " " chords	Fox & Howard	1862	190 "	5,290.00	1,940.00	29,700	4,198
Lake street	South Branch	" " " Iron chords	" "	1868	185 "	11,450.00	1,940.00	17,986	2,200
Randolph street	" "	" " " chords	L. B. Boomer & Co.	1865	153 "	5,000.00	1,760.00	25,342	3,720
Madison street	" "	All iron	Gaylord	1857	155 "	42,000.00	1,680.00	44,490	4,265
Adams street	" "	Wooden braces and Iron chords	Fox & Howard	1870	160 "	37,860.00	1,170.00	7,120	2,400
Van Buren street	" "	" " " " "	" "	1867	163 "	18,270.00	1,660.00	7,635	2,580
Polk street	" "	" " " " "	" "	1869	154 "	29,450.00	1,560.00	4,770	1,390
Twelfth street	" "	" " " " "	" "	1868	202 "	44,949.40	1,660.00	3,790	1,165
Eighteenth street	" "	" " " " "	" "	1868	175 "	28,500.00	1,440.00	3,305	2,940
Twenty-second street	" "	" " " " "	" "	1871	210 "	26,900.00		Not in	use.
S. Halsted street	" "	" " " chords	" "	1860	150 "	8,500.00	1,560.00	5,178	1,385
Main street	" "	" " " Iron chords	" "	1868	152 "	12,450.00	1,440.00	1,228	413
Fuller street	" "	" " " chords	N. Chapin & Co.	1865	125 "	7,500.00	500.00	696	125
Reuben street	W. fork of S. Branch	" " " "	Fox & Howard	1871	152 "	5,000.00	500.00	645	287
Archer avenue	South Branch	" " " Iron chords	" "	1870	152 "	11,500.00	200.00	*2,555	716
Western avenue	W. fork of S. Branch	" " " " "	F. E. Canda	1869	125 "	13,000.00	500.00	No ac	count.
								246,015	45,306

PUBLIC BUILDINGS.

CITY HALL.

THE City Hall has been fully completed and made ready for use during the past year. The west half of the old Court House, which belongs to the city, has been entirely remodelled, and rooms provided therein for various city offices.

Openings have been made by which communication is had between the rooms and corridors of the old and new buildings, and the whole as now arranged is found to be very commodious, and well adapted to the wants of the city.

All of the city offices, excepting those of the Board of Education, are now located here, and it is found to be a matter of great convenience to have them all in the same building.

The cost of the City Hall, including the purchase money of the west half of the old Court House, and the cost of remodelling the same, together with the furniture, is $467,000.

A cut representing the City Hall building accompanies this Report.

The various rooms are occupied as follows: —

BASEMENT.

1. Board of Police.
2. Police Department.
3. Fire Marshal.

FIRST FLOOR.

4. City Collector.
5. Water Tax Collector and Assessor.
6. City Comptroller.
7. City Treasurer.
8. Mayor.
9. Tax Commissioner.
10. City Clerk.
11. City Assessor.

SECOND FLOOR.

19. Bookkeeper Board Public Works.
20. Superintendent Sidewalks.
21. Board of Public Works.
22. } Secretary Board Public Works.
23. }
24. City Engineer.
25. Sewerage Engineer.
26. Draughting Department.
27. } Sewerage and Drain Department.
28. }
29. Superintendent Streets and Public Buildings.
30. Special Assessment Department.
31. City Attorney.
32. Corporation Counsel.

THIRD FLOOR.

38. Clerk Supreme Court.
39. Supreme Court.
40. Council Chamber.
41. Judge's Chamber (Supreme Court).
42. Reception Room, Board of Health.
43. Fire Alarm Telegraph.
44. Sanitary Superintendent Board of Health.
45. Board of Health.
46. Assistant Engineer Water Department.

CITY BRIDEWELL.

But little has been done upon the new Bridewell buildings during the past year, excepting to finish such as had been previously commenced. There are yet to be constructed, to carry out the original design, several large workshops, and engine and boiler house, and a stable.

The boring of the artesian well was carried to a depth of 1,135 feet, when a strong flow of water was obtained. It is found to be unfit for steam or culinary purposes, but will be made useful in various other ways about the premises. It is the intention of the Board to carry a supply of lake water to the institution as soon as possible.

The total expenditure upon the Bridewell and grounds to April 1, 1871, is $ 304,636.75.

SCHOOL BUILDINGS.

The following school buildings have been erected during the last fiscal year. They are all substantial, three-story brick structures.

Douglas School. — Located at the corner of Forest Avenue and Thirty-second Street, cost	$ 51,298.18
Lincoln School. — Located on Larrabee Street, between Belden and Fullerton Avenues, cost	$ 51,121.44
Normal Primary School. — Located on W. Monroe Street, just west of the High School, cost	$ 21,600.66
North Branch Primary. — Located on Vedder Street, east of Halsted Street, cost	$ 20,230.95
Brown Primary. — Located on the Brown School lot, cost	$ 21,129.25

POLICE AND FIRE BUILDINGS.

The following buildings have been constructed for the use of the Police and Fire Department: —

A frame Police Station on Webster Avenue, cost . .	$ 2,739.10
A brick building for the use of the "F. Gund" Engine and the "Rescue Hook and Ladder Co." on Chicago Avenue, near Kingsbury Street, cost	$ 12,795.25
A brick building for the use of the "Illinois" engine, on W. Twenty-second Street, near May Street, cost. .	$ 7,156.24
A brick building for the use of the "Winnebago" Engine, on the corner of Burnside and Thirty-first Streets, cost	$ 8,065.65
A brick building for the use of the Hose Elevator, on the corner of Franklin and Washington Streets, cost .	$ 4,101.83

PUBLIC PARKS.

THE amount expended upon each of the Public Parks is as follows: —

Lake Park,	$ 18,032.58
Lincoln Park,	38,971.61
Union Park,	12,813.40
Ellis Park,	5,593.28
Vernon Park,	1,627.70
Jefferson Park,	20,868.63
Dearborn Park,	131.75
Washington Park,	14.30
Wicker Park,	15.75

Lincoln, Union, Jefferson, and Ellis Parks have been so far improved and beautified as to be very attractive places of resort; as is shown by the multitudes of people who, during the summer season, avail themselves of the advantages these public places afford for pleasure and recreation.

The principal expenditures upon the Parks, in addition to their care and maintenance, are for the following purposes: —

LINCOLN PARK.

For the introduction of the lake water into the Park; for the construction of several drinking hydrants and fountains of rock work; for a rustic carriage bridge, and for an artesian well, bored to the depth of 1,173 feet.

UNION PARK.

For the introduction of gas pipes and the erection of lamp posts; for the construction of rustic houses and of a new carriage entrance from Washington Street.

JEFFERSON PARK.

For the finishing of the lakes; for the construction of walks; of three rustic bridges; of a music pavilion; of a large fountain and basin, and for the sodding and seeding of most of the surface of the Park.

ELLIS PARK.

For the construction of the walks; of a picket fence around the Park; of a music pavilion, and of a small fountain.

VERNON PARK.

For grading and forming walks and transplanting trees.

LAKE PARK.

The chief expenditure has been for filling, although considerable progress has been made in grading and forming walks, according to the design shown in our last Annual Report.

The Board consider the improvement of this Park worthy of special mention, and they bespeak for it the generous consideration of your honorable body.

Four years ago, the strip of land called "Lake Park," lying between Michigan Avenue and the lake, and extending from Randolph Street to Park Row, was so narrow as to be unsuitable for improvement, to any considerable extent. About that time, the Board, for the purpose of putting it in a more desirable condition, asked of the Council a small appropriation, which was made, and which has been continued from year to year, to the present time.

The amount appropriated has been expended in filling and making land as fast as it could be done economically, with a view to some permanent improvement that would be beneficial to the city.

The result has been that, during the last four years, more than fourteen acres of land have been made at a cost of less than $50,000.

After a considerable delay, from various causes, a plan was fixed upon for a systematic improvement, and the work has since been prosecuted with considerable energy.

The plan is for a water-way through the centre, with walks, lawns, terraces, etc., with fountains and such other ornaments and attractions as may be thought desirable.

It is the purpose of the Board to complete this improvement as fast as an economical expenditure of the appropriation made by the Council from time to time will allow.

The advantages of the work are beginning to be appreciated by the community. During the pleasant weather, thousands of people

daily resort to this locality for the purpose of recreation, and to breathe the pure, healthful, and invigorating air of the lake.

Four years more, at the present rate of progress, will be sufficient to fill the entire basin and complete the present designs, so that "Lake Park" will have a local "habitation" as well as a "name," and be an ornament to the city.

CONCLUSION.

In conclusion, the Board respectfully invite your attention to the appended reports of the City Engineer and of the Superintendent of Streets and Bridges, together with a detailed exhibit of the financial transactions of the Board.

Respectfully submitted.

J. McARTHUR,
W. H. CARTER,
R. PRINDIVILLE,
} *Board of Public Works.*

CITY ENGINEER'S REPORT.

CHICAGO, April 1, 1871.

To the Board of Public Works:—

GENTLEMEN: Herewith your Engineer respectfully presents his Report for the year ending March 31, 1871, and, as usual, the first part of it is the

REPORT OF THE ENGINEER OF PUMPING WORKS.

PUMPING DEPARTMENT, WATER WORKS,
CHICAGO, April 1, 1871.

E. S. CHESBROUGH, ESQ., *City Engineer:—*

DEAR SIR: I respectfully submit my Seventeenth Annual Report of the operations of this department for the year closing March 31, 1871.

During the year 7,944,684,840 gallons of water have been pumped, being an increase of about 1,144,000,000 gallons, or nearly 17 per cent over that pumped the previous year.

The daily average during 1869–70 was 18⅞ millions of gallons, although throughout the month of July, 1869, the average was over 20½ millions.

During the past year the daily average was a trifle less than 22,000,000 gallons.

The average for the month of August last reached nearly 26,000,000, and on several days 27,000,000; the largest day's pumping being August 5th, viz. about 28¾ million gallons. The least quantity pumped in one day was on the 18th of December, viz. about 15,000,000. The following tabular record will show the operations of the works each month during the past year.

OPERATIONS OF ENGINES AND BOILERS.

Months.	No. of Days.	No. of Hours run per Month.	Average No. of Hours run per Day.	Total Revolutions per Month.	Average No. of Revolutions per Day.	Total No. of Gallons Water pumped per Month.	Average No. of Gallons Water pumped per Day.	Total Pounds of Coal consumed per Month. FOR PUMPING.	Average Pounds of Coal consumed per Day. FOR PUMPING.
		h. m.	h. m.						
1870, April	30	720 00	24 00	839,244	27,974	561,266,364	18,708,879	1,472,430	49,747
May	31	744 00	24 00	884,231	28,523	628,128,473	20,262,208	1,599,270	51,589
June	30	720 00	24 00	928,877	30,962	730,501,639	24,350,052	1,756,710	58,557
July	31	744 00	24 00	992,867	32,028	766,072,060	24,066,840	1,796,330	57,946
August	31	743 30	23 59	990,838	31,962	797,090,274	25,712,589	1,726,570	55,696
September	30	720 00	24 00	885,726	29,524	751,256,836	25,041,894	1,677,720	55,924
October	31	744 00	24 00	814,499	26,274	694,056,940	22,388,933	1,502,200	48,458
November	30	720 00	24 00	747,740	24,925	650,930,982	21,697,699	1,444,630	48,154
December	31	744 00	24 00	803,510	25,919	558,179,911	18,005,803	1,369,310	44,171
1871, January	31	743 53	23 59	842,577	27,180	602,621,440	19,665,208	1,421,590	45,857
February	28	672 00	24 00	742,698	26,525	547,675,127	19,559,826	1,328,740	47,455
March	31	744 00	24 00	683,198	22,038	650,904,794	21,190,477	1,528,240	49,298
Totals, . . .	365	8,759 23	287 58	10,156,205	333,834	7,944,684,840	260,650,408	18,623,740	612,852
Gen'l Av'ge p. M.	. .	729 56	23 59	846,334	27,819	662,057,070	21,720,867	1,551,978	51,072
Gen'l Av. p. Day.	. .	23 59	. . .	27,824	. . . .	21,766,260	. . . .	51,024	. . . . .

NOTE. — Coal used for heating premises included in above amounts.

The engines have been in constant operation during the year, with the exception of thirty-seven minutes in August last, on account of the breaking the 24-inch main pipe, on the corner of Rush and Pearson Streets, the total running time being 8,759$\frac{23}{60}$ hours.

	Tons.	Lbs.
The amount of coal used for heating building, pumping, etc.,	9,311	1,740
For workshop, pipe extensions, and other uses,	303	1,505
On hand, April 1, 1871,	47	
	9,662	1,245

The expenses due to pumping during the past year were as follows: —

Salaries of engineers,	$7,470.00
Labor, foremen, etc.,	9,586.57
9,311$\frac{1748}{2000}$ tons of coal, at an average cost of $7.49,	69,745.90
418 gallons of lard oil,	559.44
235 gallons of cylinder oil,	293.77
5 pounds of lubricating compound,	2.00
131½ pounds of tallow,	32.48
1,101½ pounds of waste,	180.79
170 pounds of packing,	25.98
Small stores,	112.90
Gas for lighting works,	873.25
Repairs of engines and boilers,	1,008.27
	$89,891.35

Cost of delivering water per million gallons, $11.31.

Cost of delivering water per million gallons in former years, and cost of coal: —

	Average cost of Coal per ton.	Cost per million gallons.
1864,	$6.53	$11.72
1865,	9.94	16.64
1866,	9.21	15.25
1867,	8.51	14.03
1868,	7.03	11.87
1869,	7.60	12.45
1870,	6.93	11.71
1871,	7.49	11.31
Average for eight years,	$7.91	$13.12

The quantity of water pumped each month, for the past thirteen years, also the total quantity pumped each year, together with the daily and annual increase, will be found in the following tables.

TABLE

SHOWING QUANTITY OF WATER PUMPED EACH MONTH, FROM JAN. 1, 1858, TO APRIL 1, 1871.

MONTHS.	1858	1859	1860	1861	1862	1863		
January	81,538,179	106,905,665	132,284,454	137,651,918	151,971,047	169,900,255		
February . . .	69,426,515	106,401,412	130,800,720	142,071,067	168,931,783	158,108,450		
March	82,677,463	102,415,983	150,331,680	135,576,447	192,937,942	159,930,404		
April	82,600,782	89,994,235	132,930,546	128,371,178	170,081,570			
May	82,279,920	116,007,263	141,171,078	150,489,168	181,483,032	Hereafter the year commences on the first day of April.		
June	90,211,505	113,098,416	148,197,024	155,996,352	199,113,518			
July	101,670,736	133,800,336	166,394,640	147,182,793	209,215,872			
August	107,176,652	123,266,556	152,427,690	168,602,494	195,588,295			
September . . .	108,534,540	131,735,847	132,272,202	152,710,186	186,902,888			
October	101,046,605	141,527,040	148,710,195	149,362,166	199,045,045			
November . . .	86,385,840	127,342,018	150,493,248	153,879,648	187,002,720			
December . . .	98,316,722	122,653,139	130,773,075	145,261,272	175,006,027			
Totals, . .	1,091,865,459	1,415,147,910	1,716,786,552	1,767,154,689	2,217,279,739	487,939,109		

TABLE SHOWING QUANTITY OF WATER PUMPED EACH MONTH. — CONTINUED.

MONTHS.	1863 - 64	1864 - 65	1865 - 66	1866 - 67	1867 - 68	1868 - 69	1869 - 70	1870 - 71
April	173,519,952	178,013,170	189,131,463	260,207,901	281,904,710	376,430,083	515,558,836	561,266,364
May	193,119,348	201,471,216	212,575,920	278,006,304	282,813,313	402,382,583	511,024,720	628,128,473
June	194,255,701	230,814,576	249,935,040	271,415,472	318,358,925	422,909,052	537,626,771	730,501,639
July	209,332,677	223,227,723	254,045,040	310,687,104	363,322,276	505,513,404	641,359,425	766,072,060
August	217,561,920	257,109,360	255,641,034	299,800,032	375,441,736	482,160,940	626,549,674	797,090,274
September . . .	217,229,652	237,137,038	266,145,900	262,016,784	354,965,654	447,213,481	592,379,232	751,256,836
October	185,678,001	191,542,516	246,406,639	264,920,802	377,585,973	456,278,707	556,909,988	694,056,940
November . . .	176,132,600	165,033,042	200,101,293	224,726,521	350,800,232	430,887,264	550,754,730	650,930,982
December . . .	199,592,696	208,044,966	192,616,708	211,366,383	378,710,850	466,284,049	569,074,149	558,179,911
January	209,884,992	232,131,600	236,844,455	259,410,174	380,912,240	457,504,543	548,247,452	602,621,440
February . . .	176,088,647	189,244,751	227,597,773	257,166,480	380,867,239	418,212,220	525,718,115	547,675,127
March	183,712,268	209,569,260	246,776,084	269,036,652	386,108,511	508,848,250	625,948,628	656,904,794
Totals, . .	2,336,108,454	2,523,339,218	2,777,817,349	3,168,760,609	4,231,791,659	5,374,624,576	6,801,146,720	7,944,684,840

TABLE

SHOWING TOTAL QUANTITY OF WATER PUMPED, TOGETHER WITH ANNUAL AND DAILY INCREASE.

ALSO, THE GREATEST DAILY AVERAGE FOR A SINGLE MONTH FOR THE FOLLOWING YEARS.

YEARS.	Total Quantity pumped. GALLONS.	Annual Increase. GALLONS.	Average Daily Quantity pumped. GALLONS.	Average Daily Increase. GALLONS.	GREATEST DAILY AVERAGE.	
					MONTHS.	GALLONS.
1858	1,091,865,459		2,991,413		September . .	3,617,818
1859	1,415,147,910	323,282,453	3,877,119	885,706	October . . .	4,565,388
1860	1,716,786,552	301,338,642	4,703,525	826,406	July	5,367,569
1861	1,767,154,689	50,368,137	4,841,520	137,995	August . . .	5,438,790
1862	2,217,279,739	450,125,050	6,074,739	1,233,219	July	6,748,899
1863	2,336,108,454	118,128,715	6,400,298	325,559	January . . .	6,770,488
1864	2,523,339,218	187,230,764	6,913,259	512,961	August . . .	8,293 850
1865	2,777,817,349	254,478,131	7,610,459	697,200	September . .	8,871,530
1866	3,168,760,609	390,943,260	8,681,536	1,071,077	July	10,022,164
1867	4,231,791,659	1,063,031,050	11,562,273	2,880,737	March . . .	12,455,113
1868	5,374,624,576	1,142,832,917	14,724,999	3,162,726	March . . .	16,414,460
1869	6,801,146,720	1,426,522,144	18,633,278	3,908,279	July	20,689,014
1870	7,944,684,840	1,143,538,120	21,766,260	3,133,082	August . . .	25,712,589
Average for 13 years,	3,335,885,213	527,063,029	9,136,975	1,444,226		10,882,128

TABULAR STATEMENT OF OPERATIONS OF EACH ENGINE.

Engines.	Hours and Minutes.		Total Revolutions.	Total Gallons of Water pumped.
	H.	M.		
1853	6,603	27	3,905,229	2,026,032,800
1857	3,383	1	1,973,777	1,610,602,032
1867	5,788	5	4,276,999	4,308,050,008
Totals, . .	15,774	33	10,156,005	7,944,684,840

THE SHOPS

in which is manufactured all the machinery necessary for the water mains are growing in importance as an auxiliary in the extension and maintenance of the pipe system.

During the year there have been made 335 new hydrants, including eight triple hydrants, being a new style, with three independent nozzles; 518 new stop-valves have also been made, viz.: —

4 inch, ...	124
6 inch, ...	245
8 inch, ...	120
12 inch, ...	15
16 inch, ...	6
24 inch, ...	8
	518

In addition to the foregoing, the usual amount of repairing has been done for street, bridge, and other city departments.

New tools and fixtures have been added to the shop, costing	$ 1,318.23
Value of tools, etc., previously reported, ...	5,258.71
Total cost of tools, ...	$ 6,576.94

Cost of coal, oil, operating shop, etc., . .	$ 1,837.99	
Superintendence, ...	750.00	
Total, ...	$ 2,587.99	

Deducting this expense, together with eight per cent interest on total cost of tools, and four per cent depreciation of same, and estimating the value of work done at considerably less than current prices, the nominal net earnings of the shop for the year amount to $ 7,165.63.

There are remaining on hand, of

New fire hydrants,	58
Triple hydrants,	4
Six-inch valves,	13
Eight-inch valves,	11
Twelve-inch valves,	2
Sixteen-inch valves,	1
Twenty-four-inch valves,	1
The value of these, together with raw material on hand, including finished woodwork, lumber, etc., is	$ 5,656.15
Add value of tools,	6,576.94
Total value of stock in shop,	$ 12,233.09

THE ENGINES,

as a whole, are in good order. The double engine continues to work in the most satisfactory manner. It will be observed by the tables that this engine has done more than half the pumping during the year. At one time it was kept in operation day and night, without a moment's cessation, for nearly five months.

The boilers remain about the same as at date of last Report. The repairs to engines and boilers have been slight, amounting in the aggregate to about $ 1,000.

In August last, a contract was made with the "Chicago Steam Boiler Works," for the construction of a boiler 12 feet diameter and 20 feet long, to take the place of the old one, which has been in use since the starting of the Works, a period of nearly eighteen years.

The new boiler was finished and delivered at the Works the latter part of February. It will be put in place at an early day.

THE BUILDINGS.

The tower remains in excellent condition. The cupola has been greatly improved in appearance by the addition of a dome. The two thirty-inch stop-valves manufactured by N. S. Bouton & Co., of this city, for use of new engines and north water main, have been placed in base of tower, but are not yet connected.

A convenient and tasty drinking-fountain is now located within the building for the accommodation of visitors.

The foundation and coping for fence for enclosing

THE GROUNDS

are about complete. The iron fence is finished, but not yet in place. I am obliged to report that, owing to work on new pump-well, and other good reasons, nothing has been done towards improving the grounds. When they are beautified as contemplated in the original plans they will be a great improvement to the neighborhood, and appreciated by the great number of visitors who daily throng the Works, and when fully completed will be worthy the name of Water Works Park.

In my last Annual Report it was stated that plans and specifications were issued and proposals invited for the construction of

NEW ENGINES AND BOILERS.

On the 25th of July bids were considered by the Commissioners, and the contract awarded to the Knap Fort Pitt Foundry Company, at Pittsburg, for the construction of a double engine with a capacity of 36,000,000 gallons in 24 hours.

The progress upon the work will not insure the completion of the engines in time for use during the coming hot season, although the character of the work thus far is very satisfactory.

A description of the new machinery will be deferred until the next Annual Report, at which time, it is hoped, the engines will be in operation.

Immediately after closing the contract for the engines, work upon the pump-well and foundations was commenced.

The well intended for the new machinery was constructed in 1868, without reference to the size or style of the engine to be built. The design of the engine required the well to be deepened; this was done by building a wall under the present curb. The clay was excavated to a depth of 8½ feet below the shoe, and in order to guard against caving from sand-pockets, etc., the excavation was made and the additional wall put in in sections of about six feet in length. The wall is composed of a footing of stone seven inches thick and two feet wide, upon which brick are laid in cement, and are carried up to and connect with the curve of the cast-iron shoe. The wall has an offset of four inches beyond the edge of the shoe, to which it is connected by iron bands.

The wall completed throughout the circumference, the clay remaining within the area was removed, the surface levelled, and two

courses of three-inch oak plank, laid in cement, covering the entire bottom. Upon this two courses of twelve-inch oak timbers are laid, three inches apart, and the spaces filled with concrete. These timbers are covered with a course of three-inch oak plank, spliced thereto, making a total of thirty-three inches of solid oak, forming the bottom.

The tunnel from the gate-chamber to the pump-well was partly constructed in 1867, leaving about 25 feet to be completed.

The water was pumped out from the southwest compartment of the gate-chamber, and in order that the channel of the gate-chamber might be used during the progress of the work, a bulkhead of wood, in lieu of a gate, was fitted to the opening leading to new well.

The work of tunnelling was then commenced within the pump-well. The first six feet of the work proved exceedingly troublesome; the clay was very wet, owing to the presence of several large "sand-pockets." On one occasion a slide of clay took place, admitting a considerable quantity of water, under a head of 18 feet, affecting the surrounding earth to the surface a distance of twenty-four feet, and causing some slight cracks in the walls of main building. By prompt efforts, the flow of water was stopped, preventing what otherwise might have proved a serious damage to the heavy walls directly above. After passing this point, the balance of the tunnel was completed without difficulty, and a junction made with the portion already built. The work on both the extension of well-curb and the tunnel was carried on night and day, and fully completed October 9, 1871.

The stone for the

ENGINE FOUNDATIONS

was furnished by Messrs. Singer and Talcott. Each stone was quarried to drawings so near the dimensions required, that but little labor was necessary to prepare them for setting.

The stone averages 17 inches in thickness, and is of excellent quality.

The foundations consist of two main piers and two sub-piers. The former are each twelve feet broad at the base, six and a half feet at the top, and twenty-four feet long. The latter rest upon offsets in the main pier, and are ten feet square at the base and eight feet square at the top.

A diamond drill was put in operation, and drilled 3½-inch holes

through the solid stone to a depth of eighteen feet each, with a rapidity, accuracy, and economy unattained by the common method of hand drilling.

It is expected that about the middle of next month the several parts will be sent forward, so that the work of erection may be continued without interruption.

In laying out and preparing the foundations, as well as during the progress of all the work here alluded to, I take pleasure in acknowledging the prompt and efficient services of my assistant, Mr. C. A. Rogers.

Messrs. Trautman, Faron, and Lewis continue as the regular assistant-engineers of the Pumping Department.

Respectfully,

DEWITT C. CREGIER,
Engineer.

CONSUMPTION OF WATER.

THIS continues to be a subject of great importance, as it affects both the comforts and the pecuniary interests of nearly every citizen. The report of Mr. Cregier shows that previous estimates of consumption, upon which the plans of the Board for enlarging and extending the Water Works were based, fall short of the amount actually supplied.

As the necessity for additional works, and the plans upon which such works should be constructed, have been much discussed, it may be of general interest to state, in a condensed form, the facts and estimates upon which the plans adopted were based.

The following tabular statement shows, it is believed, all that it is most desirable to know in this connection: —

Year.	Number of Inhabitants.	U. S. Gallons of Water Daily.			Gallons per Inhabitant.	Number of Inhabitants to each Tap.	Miles of Main and Distributing Pipe laid.	Number of House Services or Taps.	Water Rents.
		Actually Supplied.	Estimated at one sixth Annual Increase.	Estimate of 1851.					
1858	91,000	2,991,413		2,340,000	32.8	19.5		4,666	$ 96,700
1859		3,877,119	3,489,980	2,520,000				5,511	103,000
1860	109,260	4,703,525	4,071,644	2,700,000	43.0	17.2		6,350	109,260
1861		4,841,520	4,750,251	2,880,000				6,876	123,700
1862	138,186	6,074,739	5,541,960	3,060,000	43.9	18.5		7,450	138,186
1863		6,400,298	6,465,620	3,240,000			115.4	8,412	
1864	169,353	6,913,259	7,543,223	3,420,000	40.8	17.1	127.3	9,855	169,353
1865	178,492	7,610,459	8,800,427	3,600,000			141.2	11,496	178,492
1866	200,418	8,681,536	10,267,165	3,780,000	43.3	14.5	152.2	13,800	200,418
1867		11,562,273	11,978,359	3,960,000			174.8	16,808	242,383
1868	252,054	14,724,999	13,974,752	4,140,000	58.4	11.7	208.6	21,476	337,372
1869		18,633,278	16,303,878	4,320,000			239.9	28,957	476,968
1870	298,700	21,766,260	19,021,191	4,536,000	72.8	8.2	272.4	36,283	539,318
1871			22,191,389	4,752,000					
1872			25,889,954	5,004,000					
1873			30,204,947	5,256,000					
1874			35,239,104	5,544,000					
1875			41,112,288	5,832,000					
1876			47,964,337						
1877			55,958,393						
1878			65,284,792						
1879			76,165,590						
1880			88,859,855						

An examination of the foregoing table shows that, while the population of the city has been increasing at the rate of about 10 per cent per annum, the consumption of water has increased at the rate

of about 17 per cent per annum; and the average daily consumption by each inhabitant has increased from 32.8 gallons in 1858 to 72.8 in 1870.

The extraordinary increase in the average rate of consumption by each inhabitant is not so much the result of any corresponding change in the habits of the citizens as it is owing to the furnishing a larger proportion of them with water now than formerly. A striking proof of this is the great increase of house services. In 1858 there was one service for every 19½ of the inhabitants; now there is one for every 8. It should be stated, however, that probably 4,500 taps or services inserted up to the beginning of the municipal year were not in use, having been laid to improved lots, to avoid the necessity of breaking up new pavements. Deducting the 4,500 would leave the number of services in actual use 31,783, or one to about every 9⅛ inhabitants.

Greater efforts were made to prevent waste last year than ever before. The annual increase of consumption, which exceeded 25 per cent per annum for three years previously, was reduced last year to 16⅔ per cent, a rate of increase which represents the average since 1858. Hence the estimated future requirements of the city are on this basis.

Should the rate of increase assumed in the estimate be continued, the average daily consumption for 1877 will exceed the estimated capacity of the present Lake Tunnel; but the average consumption on the hottest days of summer is sometimes more than one third greater than the average for the year, and consequently the demand in the summer of 1875 may be expected to equal occasionally the estimated capacity of the Tunnel.

It is impossible to foretell either the future population or water consumption of this city, but, as a matter of interest, the consumption as ascertained in 1851 is given in one column of the table, from which it will be seen that the actual consumption of 1870 was very nearly five times as great as the original estimates. It should be stated, also, that the actual consumption of 1870 was very nearly equal to our own estimate for 1871, which was based on a regular increase of 16⅔ per cent per annum, beginning with 1858.

INLET BASIN.

The usual precautions against being cut off from a supply of water from the shore, in case the Lake Tunnel or Crib should have been injured, were taken last winter. The inlet basin was dredged so as to admit a free passage of water from the lake, and a dredge kept in the basin all winter.

Although the top of the piles in the breakwater around the basin are more decayed than ever, there seems to be enough left for necessary protection; at least until it can be determined how best to improve the property in connection with the proposed outside harbor improvements.

DISTRIBUTING PIPES.

THERE were laid during the year ending March 31, 1871, the following main and distributing pipes, viz.:—

SOUTH DIVISION.

On what Street.	Location.	Length in Feet.	Diameter in Inches.
Arnold st.	Twenty-third and Twenty-fourth sts.	670	4
Archer ave.	To blow-off stop-cocks each side of bridge.	120	4
Alley E. Cott. Gr. ave.	Groveland and Woodland parks.	532	4
Alley north of 29th st.	Cottage Grove ave. and eastward.	612	4
Alley south of Lake st.	Market st. and eastward.	50	6
Adams st.	In Water Pipe Tunnel and approaches.	370	24
Adams st.	In Water Pipe Tunnel and approaches.	50	12
Adams st.	In Water Pipe Tunnel and approaches.	8	16
Ashland ave.	Mulligan and south of Columbia st.	614	6
Butler st.	Twenty-sixth and Kossuth sts.	330	6
Buddan st.	Twenty-sixth and Twenty-ninth sts.	1,649	6
Burnside st.	Fifteenth and Sixteenth sts.	659	4
Blackwell st.	Eighteenth and Twentieth sts.	798	6
Broadway ave.	Northern ave. and northward.	429	4
Clark st.	Haddock place and South Water st.	160	8
Colfax ave.	Thirty-fifth st. and northward.	60	8
Colfax ave.	Thirty-fifth st. and Crittenden ave.	300	4
Cottage Grove ave.	Thirty-fifth and Thirty-ninth sts.	2,877	8
Calumet ave.	Nineteenth and Twenty-first sts.	743	6
Calumet ave.	Twenty-ninth st. and southward.	60	6
Cologne st.	Main and Quarry sts.	464	6
Dearborn st.	Across Lake st.	95	8
Egan ave.	Across Cottage Grove ave.	16	12
Forest ave.	Thirty-second st. and southward.	267	6
Forest ave.	Across Thirty-fifth st.	112	8
Fifteenth st.	State and Burnside sts.	403	6
Grafton ave.	Thirty-fifth st. and southward.	52	6
Griswold st.	Jackson st. and southward.	423	4
Garibaldi st.	Twenty-eighth and Twenty-ninth sts.	517	6
Gano st.	End of pipe and 45 feet W. of Calumet ave.	177	4
Halsted st.	Twenty-sixth st. and southward.	299	8
Halsted st.	Thirty-first st. and Egan ave.	5,273	6
Indiana ave.	Douglas place and northward.	614	6
Joseph st.	Archer ave. and northward.	421	6
Keeley st.	Lyman ave. and southward.	325	4
Kossuth st.	Buddan st. and Wentworth ave.	682	4
Lyman st.	Farrel st. and westward.	56	6
Lake st.	Clark st. and Wabash ave.	1,234	16
Lake st.	La Salle and Market sts.	965	8
	Carried forward, . .	23,486	

On what Street.	Location.	Length in Feet.	Diameter in Inches.
	Brought forward, . .	23,486	
Mary st.	Archer ave. and C. A. & St. L. R. R.	467	4
Michigan ave.	Thirty-first st. to south of Thirty-third st.	1,168	6
Michigan ave.	Across Douglas place.	110	6
Mulligan st.	Ashland ave. and westward.	415	4
Market st.	Lake and Randolph sts.	392	8
Oak ave.	Vincennes and Grafton aves.	830	4
Prairie ave.	Across Douglas place.	110	6
Quincy st.	State and Clark sts.	796	6
Quarry st.	Archer ave. and Rum st.	377	8
Rhodes ave.	Douglas place and northward.	68	6
Ray st.	South Park and Prairie aves.	887	4
Rum st.	Halsted and Quarry sts.	918	8
Sanger st.	Twenty-fifth st. and northward.	16	6
South Park ave.	Douglas place and northward.	452	6
Sheridan place.	Purple st. and westward.	405	4
S. P. Boulev'd, W. S.	Douglas place and southward.	100	6
S. P. Boulev'd, E. S.	Douglas place and southward.	85	6
State st.	Thirty-second and Thirty-fifth sts.	2,022	8
Thirty-second st.	State st. and east of Wabash ave.	503	8
Thirty-second st.	Prairie and Forest aves.	361	8
Twenty-fifth st.	Wallace and Sanger sts.	656	4
Twenty-fifth st.	South Park ave. and eastward.	500	4
Twenty-fifth st.	Across Michigan ave.	58	6
Twenty-third st.	Michigan ave. and eastward.	57	4
Twenty-third st.	Cottage Grove and Michigan aves.	683	6
Twenty-fourth st.	Arnold st. and Wentworth ave.	326	6
Twenty-fourth st.	Stewart ave. and east of Buddan st.	657	8
Twenty-fourth st.	Michigan ave. and westward.	50	4
Thirty-fifth st.	State st. and Cottage Grove ave.	4,496	12
Thirty-first st.	Wentworth ave. and eastward.	219	8
Thirty-first st.	Wabash ave. and west to connect.	25	8
Thirty-first st.	Halsted and Main sts.	938	6
Twenty-sixth st.	Wabash and Prairie aves.	1,075	8
Twenty-sixth st.	Across Michigan ave.	98	12
Twentieth st.	State st. and Archer ave.	546	6
Twenty-eighth st.	State st. and Wabash ave.	348	4
Twenty-eighth st.	Buddan and Garibaldi sts.	378	6
Twenty-first st.	Wabash and Michigan aves.	198	4
Twenty-first st.	Michigan and Calumet aves.	1,082	6
Thirty-third st.	State and Burnside sts.	285	6
Vernon ave.	Thirty-fifth st. and southward.	6	6
Vernon ave.	Thirty-fifth st. and southward.	606	4
Wabash ave.	Twenty-ninth and Thirty-fifth sts.	3,534	24
Wabash ave.	Across Douglas place.	100	6
Washington st.	State and Franklin sts.	1,799	8
Wentworth ave.	Twenty-ninth and Thirty-second sts.	2,049	6
		54,732	
	Hydrants, ...	1,924	
	Total, ...	56,656	

WEST DIVISION.

On what Street.	Location.	Length in Feet.	Diameter in Inches
Aberdeen st.	Jackson and Van Buren sts.	258	4
Ada st.	Fourth and Indiana sts.	530	6
Ada st.	Hubbard and Kinzie sts.	384	6
Ada st.	Kinzie st. and Depot place.	232	8
Armour st.	Kinzie st. and northward.	36	6
Augusta st.	Ashland ave. and Rumsey st.	300	6
Ann st.	Kinzie st. and southward.	158	6
Ashland ave.	Division and Augusta sts.	1,630	24
Ashland ave.	Washington ave. and Harrison st.	4,180	24
Ashland ave.	To "blow off" at Division st.	30	12
Ashland ave.	Hubbard st. and Washington ave.	650	6
Ashland ave.	Lake and Fulton sts.	150	6
Ashland ave.	Park ave. and Washington st.	421	6
Ashland ave.	Clybourn place and Bloomingdale road.	844	6
Ashland ave.	Division st. and southward.	65	6
Bowery st.	Van Buren st. and southward.	65	4
Brown st.	Mitchell and Wright sts.	366	4
Blanche st.	Elston road and Fleetwood ave.	574	6
Canalport ave.	Across intersecting sts.	30	6
California st.	Across Madison st.	60	8
Coolidge (or 13th) st.	Blue Island ave. and Waller st.	518	4
Catherine st.	Blue Island ave. and Loomis st.	989	6
Catherine st.	Loomis st. and westward.	180	4
Centre ave.	Harrison and Kissom sts.	444	6
Curtis st.	Second and May sts.	723	4
Cossitt st.	Fulton and Kinzie sts.	1,336	4
Clybourn place.	Wood and Mendel sts.	2,077	6
Centre place.	Across Union st.	100	4
Canal st.	To N. E. corner Van Buren st.	35	4
Chicago ave.	To "blow off" west of the river.	16	8
Chicago ave.	From the river westward.	114	24
Chicago ave.	Halsted and Carpenter sts.	1,600	6
Currier st.	Wade and Augusta sts.	260	6
Charles st.	Van Buren st. and southward.	26	4
Division st.	Ashland ave. and the river.	2,658	24
Division st.	Noble st. and N. W. R. R. Track.	350	6
Division st.	Milwaukee ave. and Elston road.	1,750	8
Division st.	Ashland ave. and Paulina st.	650	8
Depuyster st.	Desplaines and Halsted sts.	350	4
Dickson st.	Division and Blackhawk sts.	982	6
Dix st.	Chicago ave. and northward.	46	6
Dobyn st.	Waller st. and Blue Island ave.	740	4
Eighteenth st.	To connect at Union st.	24	6
Eagle st.	Across Union st.	80	4
Erie st.	Paulina st. and eastward.	158	4
Elizabeth st.	Hunt and Indiana sts.	271	6
Elizabeth st.	Washington ave. and Kinzie st.	458	6
Elston road.	North ave. and Blackhawk st.	1,465	6
Fulton st.	Western ave. and Leavitt st.	1,302	4
Fulton st.	Ashland ave. and westward.	210	4
Fulton st.	Sangamon and Peoria sts.	304	6
Fourth st.	Across Sangamon st.	108	8
Fay st.	Phillips and Pratt sts.	360	4
Fisk st.	Sixteenth and Evans sts.	200	6
Fig st.	Milwaukee ave. and westward.	400	4
	Carried forward, . .	32,247	

On what Street.	Location.	Length in Feet.	Diameter in Inches.
	Brought forward, . .	32,247	
Fifth st.	Chicago ave. and northward.	50	6
Green st.	Lake and Washington sts.	826	6
Green st.	Chicago ave. and southward.	68	6
Hoyne st.	Van Buren and Tyler sts.	287	6
Hoyne st.	Across Park ave.	216	8
Halsted st.	Phillips and Pratt sts.	370	6
Holt st.	Division and Bradley sts.	770	6
Honore st.	Madison st. and southward.	76	6
Harrison st.	End of pipe and Ashland ave.	72	12
Indiana st.	Halsted and Green sts.	225	6
Indiana st.	Ashland ave. and Bickerdike st.	565	4
Jackson st.	Robey and Lincoln sts.	636	6
Jackson st.	Across Ashland ave.	124	8
Jefferson st.	Barber and Wright sts.	219	6
Kinzie st.	At intersection of Seymour st.	16	12
Kinzie st.	At intersection of Sangamon st.	90	6
Kinzie st.	Morgan and Sangamon sts.	261	8
Kinzie st.	Morgan st. and Ashland ave.	4,012	12
Kinzie st.	East of Peoria st. and westward.	395	6
Keith st.	Chicago ave. and Second st.	657	4
Leavitt st.	Monroe and Van Buren sts.	1,848	6
Lumber st.	Maxwell and Stephenson sts.	412	4
Lytle st.	In the feeder at Twelfth st.	27	8
Lytle st.	To the "blow off" at Twelfth st.	32	6
Lytle st.	Twelfth and Arthington sts.	1,286	12
Lake st.	Paulina and Wood sts.	634	8
Lake st.	In the feeder at Union st.	45	8
Lincoln st.	Park ave. and southward.	60	6
Lincoln st.	Lake st. and northward.	60	6
Lincoln st.	Madison st. and northward.	48	6
Lincoln st.	Indiana and Erie sts.	920	6
Lydia st.	Across Union st.	104	4
Madison st.	Staunton and California sts.	2,151	8
Mitchell st.	Halsted st. and westward.	60	6
Mendel st.	Clybourn place and Armitage road.	600	6
May st.	Kinzie st. and Washington ave.	374	6
May st.	Randolph st. and northward.	36	6
McHenry st.	North ave. and northward.	50	6
Meridian st.	Across Union st.	100	4
Noble st.	Indiana and Fourth sts.	530	8
Noble st.	North ave. and Bradley st.	1,830	8
Noble st.	Across Division st. to connect.	280	8
North ave.	Elston road and McHenry st.	734	8
Oakley st.	Fulton and Kinzie sts.	657	6
Oakley st.	Lake st. and southward.	75	6
Paulina st.	Monroe st. and Warren ave.	713	6
Paulina st.	Lake st. and northward.	60	8
Paulina st.	Erie and Fourth sts.	341	6
Paulina st.	Clarinda and Emily sts.	1,356	6
Page st.	Across Park ave.	90	8
Page st.	Lake st. and southward.	60	6
Page st.	Kinzie and Hubbard sts.	376	4
Page st.	Madison st. and northward.	48	8
Page st.	Madison st. and southward.	50	6
Phillips st.	Sangamon and Fay sts.	321	6
Park ave.	Oakley and Rockwell sts.	1,726	4
	Carried forward, . .	60,276	

On what Street.	Location.	Length in Feet.	Diameter in Inches.
	Brought forward, . .	60,276	
Pratt st.	Halsted st. and westward.	24	4
Rockwell st.	Madison st. and southward.	48	6
Rawson st.	Wright and McHenry sts.	300	4
Robey st.	Lake st. and southward.	72	6
Robey st.	Across Park ave.	96	6
Robey st.	Madison st. and southward.	58	6
Ruble st.	Eighteenth st. and Canalport ave.	526	4
Ruble st.	Canalport ave. and southward.	144	4
Rumsey st.	Clarinda and Cornelia sts.	550	4
Rumsey st.	Division st. and southward.	520	4
Rumsey st.	Augusta and Emily sts.	397	4
String st.	Sixteenth st. and Canalport ave.	1,235	4
Seward st.	Canalport ave. and Lumber st.	817	4
Seymour st.	Lake and Kinzie sts.	1,478	6
Stewart ave.	Barber and Wright sts.	223	6
Sampson st.	Blue Island ave. and Centre ave.	507	4
Sheldon st.	Depot place and southward.	362	4
Sangamon st.	Van Buren and Tyler sts.	345	4
School st.	Jefferson and Desplaines sts.	268	4
Southwestern ave.	Across Madison st.	144	6
Smith st.	Southwestern ave. and Page st.	678	4
Sholto st.	Harrison st. and southward.	52	6
Tyler st.	Robey and Leavitt sts.	1,119	4
Taylor st.	Lytle st. to connect.	36	12
Union st.	Sixteenth st. and Canalport ave.	1,633	8
Union st.	In feeder at Fulton st.	23	8
Union place	Twenty-second and Union sts.	410	4
Van Buren (S. side) st.	Canal and Charles sts.	330	4
William st.	Aberdeen st. and eastward.	48	4
Walsh st.	Centre ave. and May st.	418	8
Washington st.	Reuben and Paulina sts.	238	6
Washington (S. side)	Canal st. and westward.	132	4
Washington (N. side)	Canal st. and westward.	250	4
Washington st.	Western ave. and westward.	1,081	4
Washington ave.	Union Park place and eastward.	120	6
Washington ave.	May and Curtis sts.	316	4
Washington ave.	Sangamon st. and westward.	48	4
Wright st.	Stewart ave. and westward.	22	4
Wright st.	North ave. and Rawson st.	450	4
Wood st.	Across Lake st.	83	6
Wood st.	Park ave. and northward.	48	6
Wood st.	Madison st. and northward.	76	6
Wayman st.	Across Union st.	113	8
Winchester st.	Madison st. and southward.	70	6
Western ave.	Lake st. and southward.	60	8
Western ave.	Park ave. and southward.	103	8
Western ave.	Madison and Van Buren sts.	1,950	8
		78,297	
	Hydrants, ...	3,146	
	Total, ...	81,443	

NORTH DIVISION.

On what Street.	Location.	Length in Feet.	Diameter in Inches.
Alaska st.	Larrabee st. and westward.	452	4
Alley S. of Clybourn.	Hinsche st. and eastward.	386	4
Bliss st.	Hickory and North Branch sts.	312	6
Belden place.	Belden ave. and end of pipe north.	455	4
Belden ave.	Orchard and Burling sts.	320	4
Belden ave.	Burling and Halsted sts.	345	6
Blackhawk st.	Halsted st. and westward.	50	8
Cherry ave.	Division and North Branch sts.	980	4
Cherry ave.	North ave. and southward.	65	6
Crosby st.	Oak and Division sts.	1,436	24
Clark st.	Wells and Wisconsin sts.	194	6
Clark st.	La Salle and Menomonee sts.	590	6
Chicago ave.	Roberts st. and W. P. Tunnel.	187	24
Chicago ave.	To "blow off" corner Roberts st.	50	8
Division st.	Crosby and the River W. P. Tunnel.	2,953	24
Dayton st.	Across North ave.	100	6
Erie st.	Kingsbury and Townsend sts.	270	4
Erie st.	Kingsbury and Roberts sts.	82	4
Erie st.	Cass and Pine sts.	670	6
Elm st.	La Salle st. and westward.	56	4
Elm st.	Across Sedgwick st.	200	6
Grand Haven slip.	Ogden place and Astor st.	215	4
Hickory st.	Division and North Branch sts.	1,657	8
Halsted st.	Division and Centre sts.	5,572	16
Halsted st.	Division st. and southward.	14	8
Halsted st.	North Branch and Hooker sts.	522	6
Hawthorne ave.	Across North ave.	150	6
Hinsdale st.	La Salle st. and westward.	65	6
Hill st.	Sedgwick st. and eastward.	100	6
Huron st.	Pine and Rush sts.	280	6
Knerr st.	Clybourn and Sheffield aves.	616	4
Kingsbury st.	Across Erie st.	102	8
Kinzie st.	La Salle st. and westward.	25	6
Larrabee st.	Fullerton ave. and Grant place.	1,120	6
Lincoln place.	Webster ave. and southward.	321	4
Lincoln ave.	Across Wells st.	126	6
Locust st.	La Salle st. and eastward.	70	6
La Salle (W. side of)	Kinzie and Michigan sts.	305	4
La Salle (E. side of)	N. Water and Michigan sts.	556	6
Market st.	Oak and Wendell sts.	260	6
Market st.	Elm and Hill sts.	290	6
Market st.	Chicago ave. and Huron st.	640	6
Menomonee st.	Across Wells st.	110	8
Maple st.	Across La Salle st.	115	4
North Branch st.	Hickory and Halsted sts.	529	6
North Branch st.	Halsted and eastward.	164	4
North Branch st.	Division and Cherry sts.	1,342	6
North ave.	Halsted st. and the Bridge.	2,000	8
North ave.	Feeders at Larrabee and Orchard sts.	50	6
North ave.	Halsted and Hurlbut sts.	2,494	12
Oak st.	Rush and Larrabee sts.	535	24
Oak st.	Crosby and Wesson sts.	350	24
Oak st.	Rush and State sts.	200	8
Oak st.	Clark and Wells sts.	900	8
Orchard st.	Belden ave. and Sophia st.	1,380	6
	Carried forward, . .	33,328	

On what Street.	Location.	Length in Feet.	Diameter in Inches.
	Brought forward, . .	33,328	
Ogden place.	Banks and Grand Haven sts.	350	4
Ontario st.	Market and Kingsbury sts.	12	4
Pearson st.	Rush st. and the Water Works.	610	24
Pine st.	Chicago ave. and Pearson st.	278	4
Rush st.	Chicago ave. and Oak st.	2,100	8
Rush st.	Across Erie st.	150	8
Rees st.	Across Halsted st.	87	8
Superior st.	Across Market st.	64	6
Sheffield ave.	Across North ave.	150	8
Schiller st.	Clark st. and Astor place.	918	6
Sullivan st.	Sedgwick and Hurlbut sts.	660	6
Smith ave.	North ave. and southward.	75	6
Towns court.	North ave. and southward.	50	4
Townsend st.	Erie and northward.	60	4
Wells st.	Clark and Menomonee sts.	490	6
Wendell st.	Sedgwick and eastward.	100	6
Willow st.	Halsted and Burling sts.	360	8
White st.	Across Rush st.	125	6
White st.	La Salle st. and westward.	70	6
Whitney st.	Across Rush st.	156	6
Webster ave.	Hurlbut and Larrabee sts.	697	4
Water st.	Across La Salle st.	100	6
		40,990	
	Hydrants, ...	1,638	
	Total, ...	42,628	

The whole length of pipe laid in the city during the year was 180,727 feet $= 34\frac{1207}{5280}$ miles; a little more than a mile and a half of which was on streets in which it became necessary to replace small pipe with larger ones.

PIPES TAKEN UP AND ABANDONED.

The following is a list of the pipes which, during the year, were taken up or abandoned, as not being worth the amount it would cost to take them up; where larger ones were laid.

Abandoned or Raised.	Location of Pipes.		Length in Feet.	Diameter in Inches.
Abandoned.	Adams st.	River syphon pipe.	176	12
"	Archer ave.	River syphon pipe.	90	9
Raised.	Colfax ave.	Douglas place and northward.	60	4
"	Elston road.	At intersection of Augusta st.	36	6
"	Gardner st.	At intersection of Halsted st.	12	4
"	Harrison st.	Morgan st. and westward.	480	6
"	Hinsdale st.	At intersection of State st.	100	4
"	Kinzie st.	Rucker and Elizabeth sts.	387	4
"	Kinzie st.	At intersection of La Salle st.	75	6
"	Lake st.	Paulina and Wood sts.	600	4
		Carried forward, . .	2,016	

Abandoned or Raised.	Location of Pipes.		Length in Feet.	Diameter in Inches.
		Brought forward, . .	2,016	
Abandoned.	Lake st.	La Salle and Market sts.	1,200	4
Raised.	La Salle st.	From Kinzie st. northward.	150	4
"	Michigan ave.	At intersection of Twenty-sixth st.	12	4
"	Michigan ave.	At intersection of Twenty-second st.	14	4
"	Michigan ave.	At intersection of Twenty-third st.	14	4
"	Michigan ave.	At intersection of Twenty-fourth st.	14	4
"	North Water st.	At intersection of La Salle st.	100	3
"	Pearson st.	At intersection of State st.	100	4
"	Quincy st.	State and Dearborn sts.	250	3
Abandoned.	Quincy st.	Clark and Dearborn sts.	400	3
Raised.	Rush st.	Oak st. and Chicago ave.	1,750	4
"	Rush st.	At intersection of Erie st.	150	4
"	Rees st.	At intersection of Halsted st.	16	4
"	Thirty-fifth st.	Vernon ave. and eastward.	18	6
"	Thirty-fifth st.	Cottage Grove ave. and westward.	625	4
"	Twenty-sixth st.	Michigan and Indiana aves.	326	4
"	Twenty-sixth st.	From Michigan ave. east.	34	4
"	Union st.	Sixteenth st. and Canalport ave.	1,408	4
"	Vedder st.	At intersection of Halsted st.	12	4
"	Van Buren st.	At P., Ft. W., and C. R. R. crossing.	9	6
"	Van Buren st.	Canal st. and eastward.	14	4
"	Whiting st.	At intersection of State st.	225	4
		Total, . .	8,857	

The total length of pipes laid in the city, to this date, as nearly as can be ascertained, is as follows: —

28-inch cast-iron main pipes, ...	160	feet.
24 " " " " " . . .	56,788	"
16 " " " " "	31,340	"
12 " " " " " . . .	34,281	"
30 " wrought-iron river pipe, State street, .	280	"
24 " " " " " Rush "	530	"
24 " " " " " Twelfth " .	258	"
10 " cast-iron distributing pipe, . .	7,862	"
8 " " " " " . .	161,489	"
6 " " " " " . .	510,701	"
4 " " " " " . .	607,048	"
3 " " " " " . .	27,816	"
	1,438,553	"

Or 272 miles and 2,393 feet.

There is now a continuous line of 24-inch main from the pumping works directly south to Douglas Place on Wabash Avenue, and one westward along Rush, Oak, Crosby and Division Streets to Reuben Street, — thence south along Reuben Street and Ashland

Avenue to Harrison Street. Connecting these mains are others on Chicago Avenue, Adams, Harrison and Twelfth Streets.

The pipe tunnels on Division Street, under the canal and the North Branch, under the North Branch on Chicago Avenue, under the South Branch on Adams Street, and under the south fork of the South Branch on Archer Avenue, have all been completed and are now in use.

The improvements and connections just mentioned, and others of minor importance, give a feeling of security with regard to the supply of water to the city that has not been enjoyed for years before. When the new pumping-engine, already under construction, and the 36-inch pipe contracted for, to be laid from the pumping works to the crossing of Lake and La Salle Streets, passing through the La Salle Street River Tunnel, shall have been completed, the city will be in a better condition with regard to the water supply than ever before. But the constantly increasing demand for water has been such, heretofore, as to give no rest in these matters. What proves to be sufficient and satisfactory one year ceases to be so the next; and the only safety appears to be in planning for several years ahead.

QUALITY OF THE WATER.

NOTHING different from what was mentioned in the last Annual Report can be stated this year. The same system of observations of temperature has been kept up, and the results from year to year may be expected to vary about as the seasons, showing that the comparatively shallow depth of the lake only two miles from the shore is sufficient to account for the now well-established fact that the temperature of the water furnished to the city varies according to the average temperature of the air.

HYDRANTS.

DURING the year ending April 1, 1871, the following new hydrants were established, viz.: —

SOUTH DIVISION.

One southwest corner Archer avenue and Wallace street.
One south side Archer avenue, between Wallace and Sanger streets.
One southwest corner Archer avenue and Murray street.
One southwest corner Buddan and Twenty-sixth streets.
One northwest corner Buddan and Twenty-seventh streets.
One northwest corner Buddan and Twenty-eighth streets.
One northwest corner Buddan and Twenty-ninth streets.
One northwest corner Blackwell and Twentieth streets.
One northeast corner Burnside and Fifteenth streets.
One southwest corner Cottage Grove avenue and Thirty-eighth street.
One west side Cottage Grove avenue, between Thirty-eighth street and Egan avenue.
One southwest corner Cottage Grove and Egan avenues.
One northwest corner Calumet avenue and Twentieth street.
One northwest corner Calumet avenue and Twenty-first street.
One southwest corner Clark and South Water streets.
One northwest corner Columbia street and Ashland avenue.
One southeast corner Dearborn and Lake streets.
One southwest corner Ellis place and Cottage Grove avenue.
One northwest corner Forest avenue and Thirty-second street.
One east side Fourth avenue, between Polk and Harrison streets.
One southwest corner Griswold and Harrison streets.
One northwest corner Gano street and Calumet avenue.
One northwest corner Halsted and Thirty-second streets.
One northwest corner Halsted and Thirty-third streets.
One northwest corner Halsted and Onondaga streets.
One northwest corner Halsted street and Douglas place.
One northwest corner Halsted and Thirty-sixth streets.
One northwest corner Halsted and Thirty-fourth streets.

One northwest corner Halsted and Thirtieth streets.
One northwest corner Halsted and Elmira streets.
One northwest corner Halsted street and Wahpansah avenue.
One northwest corner Halsted and E streets.
One northwest corner Halsted street and Egan avenue.
One northwest corner Indiana avenue and Douglas place.
One southeast corner Jackson street and Third avenue.
One northwest corner Joseph street and Archer avenue.
One northwest corner Kossuth street and Wentworth avenue.
One northwest corner Kossuth and Buddan streets.
One northwest corner Lime and Rum streets.
One northeast corner Lake street and Fifth avenue.
One northeast corner Lake and Franklin streets.
One northeast corner Lake and Market streets.
One northwest corner Mill street and Ashland avenue.
One northwest corner Michigan avenue and Thirty-third street.
One southwest corner Michigan avenue and Thirty-second street.
One northeast corner McGregor and Butler streets.
One northwest corner Nineteenth and Burnside streets.
One northeast corner Oak street and Grafton avenue.
One northwest corner Prairie avenue and Twenty-sixth street.
One northwest corner Ray street and South Park avenue.
One northwest corner Ray street and Calumet avenue.
One southeast corner Sherman and Harrison streets.
One northwest corner South Park avenue and Douglas place.
One northwest corner South Park and Cottage Grove avenues.
One northwest corner State and Thirty-third streets.
One northwest corner State and Thirty-fourth streets.
One northwest corner State street and Douglas place.
One northwest corner Twenty-ninth street and Wentworth avenue.
One northwest corner Twenty-fifth and Illinois Central Railroad Tracks.
One southwest corner Twenty-third and Arnold streets.
One northwest corner Twenty-fourth and Arnold streets.
One northwest corner Twentieth and State streets.
One northeast corner Twenty-eighth and State streets.
One northwest corner Thirty-first and Halsted streets.
One northwest corner Thirty-first and Quinn streets.
One northwest corner Twenty-eighth and Garibaldi streets.
One northwest corner Twenty-ninth and Garibaldi streets.
One northwest corner Twenty-fourth and Buddan streets.
One west line Vernon avenue, 560 feet south of Douglas place.
One northeast corner Vernon avenue and Douglas place.
One northeast corner Washington and Franklin streets.

One northeast corner Wentworth avenue and Twenty-fourth street.
One northwest corner Wentworth avenue and Thirtieth street.
One northwest corner Wabash avenue and Thirty-first street.
One northwest corner Wabash avenue and Douglas place.

Total in South Division, ... 74

WEST DIVISION.

One northwest corner Armour and Kinzie streets.
One northwest corner Armour and Indiana streets.
One southwest corner Ada and Fourth streets.
One southwest corner Ada and Hubbard streets.
One northwest corner Ada and Kinzie streets.
One northeast corner Adams street and Western avenue.
One northwest corner Augusta and Rumsey streets.
One northwest corner Bloomingdale road and Reuben street.
One northwest corner Blanche and Fleetwood streets.
One northwest corner Blackhawk street and Elston road.
One northwest corner Catherine and Throop streets.
One northeast corner Canalport avenue and Ruble street.
One north side Catherine, between Throop and Loomis streets.
One northwest corner Catherine and Loomis streets.
One northwest corner Clybourn place and Ridgeville road.
One northwest corner Clybourn place and Reuben street.
One northwest corner Clybourn place and Wood street.
One northwest corner Clybourn place and Commercial street.
One northwest corner Curtis and Second streets.
One northwest corner Centre avenue and Kinzie street.
One northeast corner Centre place and Union street.
One northeast corner Chicago avenue and Carpenter street.
One southwest corner Chicago avenue and Green street.
One northwest corner Chicago avenue and Fifth street.
One northwest corner Chicago avenue and Dix street.
One northwest corner Chicago avenue and Lessing street.
One northwest corner Cornelia and Rumsey streets.
One northwest corner Clarinda and Rumsey streets.
One northwest corner Desplaines and Depuyster streets.
One northwest corner Desplaines and Pierce streets.
One west side Dickson street, 300 feet north of Bradley street.
One west side Dickson street, between Bradley and Division streets.
One northwest corner Dobyn and Waller streets.
One northwest corner Emily and Paulina streets.
One southwest corner Emily and Rumsey streets.

One west side Elston road, between North avenue and Blanche street.
One northwest corner Fisk and Evans streets.
One southwest corner Fox place and Elston road.
One northwest corner Gurley street and Centre avenue.
One northeast corner Halsted and Lake streets.
One southeast corner Halsted street and Washington avenue.
One northeast corner Hubbard and Halsted streets.
One southeast corner Hubbard and Sangamon streets.
One southwest corner Honore and Madison streets.
One northeast corner Harrison street and Ashland avenue.
One northeast corner Irwin and Canal streets.
One northwest corner Indiana and Union streets.
One northeast corner John and Twenty-second streets.
One northeast corner Jackson street and Western avenue.
One northwest corner Jefferson street and Canalport avenue.
One southwest corner Keeley and Lyman streets.
One northwest corner Kinzie and Bixby streets.
One southwest corner Leavitt and Adams streets.
One southwest corner Leavitt and Jackson streets.
One west side Lytle, between Twelfth and Taylor streets.
One northwest corner Lincoln and Lake streets.
One northwest corner Lincoln and Ashley streets.
One northwest corner Lincoln and Fourth streets.
One northwest corner Lincoln and Erie streets.
One west side Loomis, between Van Buren and Tyler streets.
One northeast corner Madison and Rockwell streets.
One northeast corner Madison and Lainbeer streets.
One northwest corner Madison and California streets.
One northeast corner Madison and Ada streets.
One northeast corner Madison and Southwestern avenue.
One northeast corner Meridian and Union streets.
One northwest corner Mendel street and Clybourn place.
One northeast corner Monroe street and Western avenue.
One northwest corner May street and Washington avenue.
One southwest corner May and Kinzie streets.
One northwest corner May and Twenty-second streets.
One northwest corner Noble and Division streets.
One northwest corner Noble and Kinzie streets.
One northwest corner North avenue and McHenry street.
One northwest corner Page street and Park avenue.
One northwest corner Page and Kinzie streets.
One southwest corner Page and Lake streets.
One northwest corner Page and Madison streets.

One southwest corner Philip and Fay streets.
One northeast corner Philip and Sangamon streets.
One northwest corner Polk and Clinton streets.
One southeast corner Polk and Beach streets.
One northeast corner Polk and Jefferson streets.
One northwest corner Park avenue and Lincoln street.
One northwest corner Park avenue and Staunton street.
One north line Park avenue, 528 feet west of Staunton street.
One southwest corner Paulina and Erie streets.
One northwest corner Paulina and Cornelia streets.
One northwest corner Paulina and Augusta streets.
One northwest corner Peoria and Jackson streets.
One northwest corner Rawson and McHenry streets.
One northeast corner Robey street and Park avenue.
One southwest corner Rumsey and Division streets.
One southwest corner Rumsey and Jane streets.
One northwest corner String and Eighteenth streets.
One west side String, between Sixteenth and Eighteenth streets.
One northwest corner Seymour and Fulton streets.
One northwest corner Seymour and Kinzie streets.
One northeast corner Sampson street and Centre avenue.
One northwest corner Sangamon and Fulton streets.
One northeast corner Sangamon street and Washington avenue.
One southwest corner Sheldon street and Depot place.
One northwest corner Second and Keith streets.
One northwest corner Throop and Jackson streets.
One northwest corner Twelfth and Desplaines streets.
One northwest corner Tyler and Robey streets.
One northwest corner Tyler and Hoyne streets.
One southwest corner Taylor and Lytle streets.
One northwest corner Union and Mark streets.
One northwest corner Union and Seventeenth streets.
One northwest corner Union and Eighteenth streets.
One southwest corner Van Buren and Charles streets.
One northeast corner Van Buren and Western avenue.
One northwest corner Wood street and Park avenue.
One northwest corner Washington and Staunton streets.
One north line Washington street, 500 feet west of Staunton street.
One northeast corner Washington and Hoyne streets.
One southwest corner Winchester and Madison streets.
One northwest corner Wright street and North avenue.
One northeast corner Walnut and Leavitt streets.
One northwest corner Western and Park avenues.

Total in West Division, ... 121

NORTH DIVISION.

One northeast corner Alaska and the alley east of Orchard street.
One northwest corner Alaska and Larrabee streets.
One northwest corner Burling street and North avenue.
One southwest corner Cherry avenue and Division street.
One southwest corner Cherry and North avenues.
One northwest corner Clark and Wisconsin streets.
One northwest corner Clark and La Salle streets.
One northwest corner Clark and Menomonee streets.
One northeast corner Chicago avenue and Pine street.
One on Chicago avenue at the Gund Engine House.
One northwest corner Erie and North Clark streets.
One southeast corner Erie and North La Salle streets.
One northeast corner Erie and Rush streets.
One northwest corner Grace and Division streets.
One northwest corner Halsted and Hooker streets.
One northwest corner Halsted street and North avenue.
One southwest corner Kneer street and Sheffield avenue.
One southwest corner Lincoln place and Asylum place.
One northeast corner Lincoln avenue and Franklin street.
One northwest corner La Salle street and Chicago avenue.
One northeast corner La Salle and Locust streets.
One southwest corner Larrabee street and Fullerton avenue.
One west side Larrabee street, between Vedder street and Clybourn avenue.
One southwest corner Market street and Chicago avenue.
One northwest corner Market and Hinsdale streets.
One northwest corner Market and Huron streets.
One northwest corner Market and Whiting streets.
One northwest corner Mohawk street and North avenue.
One northeast corner North Branch street and Hickory avenue.
One southeast corner North Branch street and Cherry avenue.
One southeast corner North Branch and Halsted streets.
One southeast corner North Branch and Division streets.
One east side of North Branch street, 800 feet south of Division street.
One northeast corner North and Sheffield avenues.
One northwest corner North and Hawthorn avenues.
One southwest corner North and Smith avenues.
One northwest corner North Market Square.
One northwest corner Ohio and Clark streets.
One north side of Ohio street, between Market and Kingsbury streets.
One northwest corner Ohio and La Salle streets.

One northwest corner Ohio and Franklin streets.
One northwest corner Orchard street and North avenue.
One west side Orchard street, Asylum place, and Belden avenue.
One southwest corner Orchard and Sophia streets.
One southwest corner Ogden place and Banks street.
One northeast corner Otis and Division streets.
One southeast corner Pine and Pearson streets.
One southwest corner Pine and Hinsdale streets.
One southwest corner Penn and Division streets.
One northeast corner Rush and Pearson streets.
One northwest corner Rush and Whiting streets.
One southwest corner Sedgwick and Division streets.
One northeast corner Sedgwick and Hill streets.
One west side Sedgwick, between White and Oak streets.
Two west side Sedgwick street, between White street and Chicago avenue.
One northeast corner Schiller and Astor streets.
One northwest corner Vine and Division streets.
One southwest corner Wells and Granger streets.
One northwest corner Wells and Goethe streets.
One northwest corner Wells and Sigel streets.
One northeast corner Wells and Carl streets.
One northeast corner Wells and Menomonee streets.
One east side Wells street, between Carl street and North avenue.

Total in North Division, ... 63

Making 258 in all; which, together with those previously established, gives a total in the city of 1,552 hydrants at this date. During the year 75 were renewed and 96 repaired.

During the winter there were 1,600 instances of hydrants being found frozen. This was the largest number, even in proportion, that has ever occurred. It was owing principally to the very cold weather early in the season, and to the lateness at which the usual protection was put around some of the hydrants, in consequence of the large amount of other work pressing upon the force employed. Most of the cases were very slight, easily thawed out. The most troublesome occurred in open areas.

Hitherto the main dependence for preventing hydrants from freezing has been to pack manure around them. As the city increases in size this becomes more difficult and expensive, and is besides, in many instances, a nuisance. It is hoped that the system already commenced of endeavoring to make air-tight chambers

around the hydrants, by means of boards and tan bark, will not only reduce the expenses of this department of the Works, but will diminish the cases of freezing, and do away with the manure nuisance. It will probably never be safe to neglect frequent examinations during and immediately after very cold weather, in localities peculiarly exposed.

STOP-COCKS.

THE following stop-cocks were put in during the year, viz.: —

SOUTH DIVISION.

One 6-inch, Archer avenue, west line of Wallace street.
One 6-inch, Archer avenue, south line of Twenty-second street.
One 4-inch, Arnold street, south line of Eighteenth street.
One 4-inch, Arnold street, south line of Twentieth street.
One 6-inch, Buddan street, south line of Twenty-sixth street.
One 4-inch, Blackwell street, south line of Eighteenth street.
One 4-inch, Burnside street, south line of Eighteenth street.
One 4-inch, Burnside street, south line of Twentieth street.
One 4-inch, Butterfield street, south line of Eighteenth street.
One 4-inch, Butterfield street, south line of Twentieth street.
One 6-inch, Columbia street, west line of Ashland avenue.
One 6-inch, Calumet avenue, south line of Twentieth street.
One 6-inch, Calumet avenue, south line of Twenty-ninth street.
One 6-inch, Calumet avenue, south line of Twenty-sixth street.
One 8-inch, Clark street, south line of Twelfth street.
One 8-inch, Clark street, south line of Fourteenth street.
One 8-inch, Clark street, south line of Eighteenth street.
One 8-inch, Clark street, south line of Twentieth street.
One 8-inch, Cottage Grove avenue, north line of Wahpanseh avenue.
One 8-inch, Cottage Grove avenue, north line of Egan avenue.
One 6-inch, Cottage Grove avenue, north line of Douglas place.
One 6-inch, Cottage Grove avenue, south line of Twenty-sixth street.
One 8-inch, Cottage Grove avenue, south line of Douglas place.
One 4-inch, Cottage Grove avenue, south line of Twenty-ninth street.
One 8-inch, Colfax street, north line of Douglas place.
One 12-inch, Douglas place, east line of Forest avenue.
Two 12-inch, Douglas place, in the feeder at Wabash avenue.
One 12-inch, Douglas place, west line of Cottage Grove avenue.
One 12-inch, Douglas place, east line of State street.
One 8-inch, Dearborn street, south line of Lake street.
One 8-inch, Dearborn street, north line of Lake street.
One 8-inch, Forest avenue, north line of Douglas place.
One 8-inch, Forest avenue, south line of Douglas place.
One 6-inch, Grafton avenue, south line of Douglas place.

One 6-inch, Griswold street, south line of Harrison street.
One 6-inch, Halsted street, south line of Thirty-first street.
One 6-inch, Halsted street, south line of Thirty-third street.
One 8-inch, Halsted street, south line of Twenty-sixth street.
One 6-inch, Halsted street, north line of Douglas place.
One 6-inch, Halsted street, south line of Douglas place.
One 6-inch, Halsted street, north line of Wahpanseh avenue.
One 6-inch, Indiana avenue, north line of Douglas place.
One 6-inch, Indiana avenue, south line of Douglas place.
One 6-inch, Indiana avenue, south line of Twentieth street.
One 6-inch, Indiana avenue, south line of Fourteenth street.
One 6-inch, Indiana avenue, south line of Twenty-sixth street.
One 6-inch, Indiana avenue, south line of Twenty-ninth street.
One 6-inch, Indiana avenue, south line of Eighteenth street.
One 4-inch, Jackson street, east line of Wells street.
One 16-inch, Lake street, west line of Wabash avenue.
One 8-inch, Lake street, in feeder at Wabash avenue.
One 16-inch, Lake street, west line of State street.
One 8-inch, Lake street, east line of Wells street.
One 4-inch, Mulligan street, west line of Ashland avenue.
One 4-inch, Mill street, west line of Ashland avenue.
One 4-inch, McGregor street, west line of Buddan street.
One 6-inch, Michigan avenue, south line of Thirty-third street.
One 6-inch, Michigan avenue, south line of Fourteenth street.
One 6-inch, Michigan avenue, south line of Twenty-sixth street.
One 6-inch, Michigan avenue, north line of Douglas place.
One 6-inch, Michigan avenue, south line of Douglas place.
One 6-inch, Michigan avenue, south line of Twentieth street.
One 6-inch, Michigan avenue, south line of Twenty-ninth street.
One 6-inch, Michigan avenue, south line of Eighteenth street.
One 6-inch, Prairie avenue, north line of Douglas place.
One 6-inch, Prairie avenue, south line of Douglas place.
One 6-inch, Prairie avenue, south line of Twentieth street.
One 6-inch, Prairie avenue, south line of Twenty-sixth street.
One 6-inch, Prairie avenue, south line of Eighteenth street.
One 6-inch, Prairie avenue, south line of Twenty-ninth street.
One 6-inch, Purple street, south line of Twentieth street.
One 6-inch, Quincy street, east line of Clark street.
One 4-inch, Ray street, east line of Prairie avenue.
One 8-inch, Rum street, west line of Halsted street.
One 6-inch, Rhodes avenue, north line of Douglas place.
One 8-inch, State street, in the feeder at Washington street.
One 6-inch, State street, south line of Twenty-second street.

One 6-inch, State street, south line of Fourteenth street.
One 8-inch, State street, south line of Twenty-sixth street.
One 8-inch, State street, south line of Thirty-third street.
One 8-inch, State street, north line of Douglas place.
One 8-inch, State street, south line of Douglas place.
One 6-inch, State street, south line of Eighteenth street.
One 8-inch, State street, south line of Twentieth street.
One 6-inch, Sherman street, south line of Harrison street.
Two 6-inch, South Park avenue, south line of Douglas place.
One 6-inch, South Park avenue, north line of Douglas place.
One 6-inch, South Park avenue, south line of Twenty-ninth street.
One 8-inch, Twenty-sixth street, west line of Buddan street.
One 4-inch, Twenty-sixth street, east line of Prairie avenue.
One 4-inch, Twenty-eighth street, east line of State street.
One 6-inch, Twenty-eighth street, west line of Buddan street.
One 6-inch, Thirty-first street, west line of Halsted street.
One 8-inch, Thirty-second street, east line of Wabash avenue.
One 8-inch, Thirty-second street, in feeder at Wabash avenue.
One 8-inch, Twenty-fourth street, west line of Buddan street.
One 6-inch, Twenty-first street, east line of Prairie avenue.
One 6-inch, Twenty-first street, east line of Michigan avenue.
One 4-inch, Vernon avenue, south line of Douglas place.
One 8-inch, Washington street, east line of Clark street.
One 8-inch, Washington street, east line of Wells street.
One 4-inch, Washington street, east line of Wells street.
One 4-inch, Wentworth avenue, south line of Twenty-second street.
One 6-inch, Wentworth avenue, south line of Twenty-sixth street.
One 6-inch, Wentworth avenue, south line of Twenty-ninth street.
One 6-inch, Wentworth avenue, south line of Thirty-first street.
One 4-inch, Wentworth avenue, south line of Twentieth street.
One 24-inch, Wabash avenue, north line of Thirty-first street.
One 8-inch, Wabash avenue, at intersection of Thirty-first street. (Blow off.)
One 8-inch, Wabash avenue, in feeder at Thirty-first street.
One 6-inch, Wabash avenue, south line of Twenty-ninth street.
One 6-inch, Wabash avenue, south line of Fourteenth street.
One 6-inch, Wabash avenue, north line of Douglas place.
One 6-inch, Wabash avenue, south line of Douglas place.
One 24-inch, Wabash avenue, south line of Douglas place.
One 24-inch, Wabash avenue, south line of Thirty-first street.
One 6-inch, Wabash avenue, south line of Eighteenth street.
One 6-inch, Wabash avenue, south line of Twentieth street.
One 6-inch, Wabash avenue, south line of Twenty-sixth street.

Total in South Division, ... 121

WEST DIVISION.

One 6-inch, Ann street, south line of Kinzie street.
One 6-inch, Ann street, north line of Fulton street.
One 6-inch, Armour street, north line of Kinzie street.
One 6-inch, Adams street, west of the river. (Blow off.)
One 8-inch, Augusta street, west line of Noble street.
One 4-inch, Aberdeen street, south line of Van Buren street.
One 4-inch, Aberdeen street, south line of Harrison street.
One 4-inch, Aberdeen street, north line of Harrison street.
One 4-inch, Aberdeen street, south line of Madison street.
One 6-inch, Ada street, north line of Kinzie street.
One 8-inch, Ada street, south line of Kinzie street.
One 24-inch, Reuben street, south line of Division street.
One 12-inch, Reuben street, at intersection of Division street. (Blow off.
One 24-inch, Ashland avenue, south line of Madison street.
One 4-inch, Ashland avenue, north line of Madison street.
One 6-inch, Ashland avenue, south line of Madison street.
One 6-inch, Reuben street, north line of Fourth street.
One 6-inch, Ashland avenue, south line of Van Buren street.
One 6-inch, Reuben street, south line of Division street.
One 24-inch, Ashland avenue, north line of Harrison street.
One 12-inch, Ashland avenue, in feeder at Harrison street.
One 6-inch, Reuben street, north line of Augusta street.
One 6-inch, Reuben street, north line of Fulton street.
One 6-inch, Blue Island avenue, west line of Centre avenue.
One 6-inch, Blue Island avenue, west line of Morgan street.
One 6-inch, Bixby street, north line of Kinzie street.
One 4-inch, Barber street, west line of Jefferson street.
One 4-inch, Bowery street, south line of Van Buren street.
One 6-inch, Catherine street, west line of Loomis street.
One 4-inch, Catherine street, west line of Morgan street.
One 4-inch, Catherine street, west line of Centre avenue.
One 4-inch, Catherine street, west line of Jefferson street.
One 6-inch, Centre avenue, south line of Harrison street.
One 6-inch, Centre avenue, south line of Madison street.
One 6-inch, Centre avenue, south line of Van Buren street.
One 6-inch, Centre avenue, north line of Harrison street.
One 6-inch, Centre avenue, south line of Mitchell street.
One 6-inch, Clybourn place, west line of Reuben street.
One 6-inch, Clybourn place, west line of Ridgeville road.
One 6-inch, Clybourn place, west line of Wood street.

One 6-inch, Carpenter street, 62 feet south of south line of Kinzie street.
One 6-inch, Carpenter street, north line of Fourth street.
One 6-inch, Carpenter street, north line of Fulton street.
One 6-inch, Curtis street, south line of Kinzie street.
One 4-inch, Curtis street, north line of Fourth street.
One 6-inch, Curtis street, north line of Fulton street.
One 6-inch, Chicago avenue, west line of Carpenter street.
One 24-inch Chicago avenue, at approach to W. P. tunnel.
One 8-inch Chicago avenue, west of the river. (Blow off.)
One 4-inch, Cornell street, west line of Noble street.
One 4-inch, Cornelia street, west line of Noble street.
One 8-inch, California street, south line of Madison street.
One 6-inch, Currier street, north line of Augusta street.
One 8-inch, Clinton street, south line of Van Buren street.
One 6-inch Canal street, south line of Mitchell street.
One 6-inch, Desplaines street, south line of Van Buren street.
One 8-inch, Desplaines street, south line of Harrison street.
One 6-inch, Desplaines street, north line of Fulton street.
One 6-inch, Dix street, north line of Chicago avenue.
One 24-inch, Division street, at approach to W. P. tunnel.
One 8-inch, Division street, west line of Reuben street.
One 6-inch, Dickson street, north line of Division street.
One 6-inch, Dekoven street, west line of Desplaines street.
One 6-inch, Elizabeth street, south line of Kinzie street.
One 6-inch, Elston road, north line of North avenue.
One 6-inch, Elston road, north line of Blackhawk street.
One 6-inch, Elston road, north line of Augusta street.
One 4-inch, Erie street, west line of Curtis street.
One 6-inch, Eleventh street, west line of Morgan street.
One 4-inch, Emma street, west line of Noble street.
One 6-inch, Eighteenth street, east line of Ruble street.
One 4-inch, Fulton street, west line of Sheldon street.
One 4-inch, Fulton street, west line of May street.
One 6-inch, Fulton street, west line of Peoria street.
One 6-inch, Fulton street, west line of Desplaines street.
One 4-inch, Foster street, south line of Harrison street.
One 6-inch, Fifth street, north line of Chicago avenue.
One 4-inch, Green street, south line of Van Buren street.
One 6-inch, Green street, south line of Chicago avenue.
One 4-inch, Green street, north line of Fourth street.
One 6-inch, Green street, north line of Randolph street.
One 4-inch, Gold street, south line of Harrison street.
One 6-inch, Harrison street, at intersection of Miller street. (Blow off.)

One 8-inch, Harrison street, west line of Clinton street.
One 4-inch, Harrison street, west line of Desplaines street.
One 8-inch, Harrison street, west line of Ashland avenue.
One 8-inch, Harrison street, at intersection of Ashland avenue. (Blow off.
One 6-inch, Halsted street, north line of Fulton street.
One 6-inch, Halsted street, north line of Fourth street.
One 6-inch, Halsted street, south line of Mitchell street.
One 8-inch, Hoyne street, north line of Park avenue.
One 4-inch, Hunt street, west line of Rucker street.
One 6-inch, Holt street, north line of Division street.
One 4-inch, Hubbard street, west line of Peoria street.
One 6-inch, Hubbard street, west line of Curtis street.
One 4-inch, Hubbard street, west line of Morgan street.
One 4-inch, Indiana street, west line of Peoria street.
One 6-inch, Indiana street, west line of Curtis street.
One 6-inch, Indiana street, west line of Morgan street.
One 8-inch, Jackson street, in the feeder at Ashland avenue.
One 8-inch, Jackson street, west line of Ashland avenue.
One 6-inch, Jackson street, west line of Centre avenue.
One 6-inch, Jackson street, west line of Morgan street.
One 4-inch, Jefferson street, south line of Van Buren street.
One 6-inch, Jefferson street, south line of Mitchell street.
One 6-inch, Johnson street, south line of Mitchell street.
One 6-inch, Keith street, south line of Chicago avenue.
One 6-inch, Kinzie street, west line of Peoria street.
One 12-inch, Kinzie street, west line of Morgan street.
One 8-inch Kinzie street, east line of Morgan street.
One 6-inch, Leavitt street, south line of Adams street.
One 6-inch, Leavitt street, north line of Park avenue.
One 12-inch, Lytle street, north line of Twelfth street.
One 6-inch, Lytle street, at intersection of Twelfth street. (Blow off.)
One 8-inch, Lytle street, in feeder at Twelfth street.
One 12-inch, Lytle street, south line of Taylor street.
One 6-inch, Lytle street, in feeder at Taylor street.
One 4-inch, Lake street, west line of Leavitt street.
One 4-inch, Lake street, west line of May street.
One 6-inch, Lake street, west line of Morgan street.
One 6-inch, Lake street, west line of Peoria street.
One 6-inch, Lake street, west line of Desplaines street.
One 4-inch, Lake street, west line of Robey street.
One 6-inch, Loomis street, south line of Madison street.
One 4-inch, Loomis street, south line of Van Buren street.
One 6-inch, Laflin street, south line of Madison street.

One 6-inch, Lincoln street, north line of Madison street.
One 6-inch, Lincoln street, north line of Erie street.
One 4-inch, Liberty street, west line of Jefferson street.
One 8-inch, Madison street, west line of California street.
One 8-inch, Madison street, west line of Sheldon street.
One 8-inch, Madison street, west line of Wood street.
One 8-inch, Madison street, west line of Robey street.
One 8-inch, Madison street, west line of Leavitt street.
One 6-inch, May street, south line of Kinzie street.
One 6-inch, May street, north line of Randolph street.
One 4-inch, May street, south line of Harrison street.
One 6-inch, May street, north line of Fourth street.
One 6-inch, May street, north line of Fulton street.
One 6-inch, Mitchell street, west line of Halsted street.
One 4-inch, Mitchell street, west line of Jefferson street.
One 4-inch, Miller street, south line of Harrison street.
One 8-inch, Morgan street, 300 feet south of Kinzie street.
One 8-inch, Morgan street, south line of Van Buren street.
One 4-inch, Morgan street, at intersection of Kinzie street. (Blow off.)
One 8-inch, Morgan street, south line of Harrison street.
One 8-inch, Morgan street, south line of Mitchell street.
One 8-inch, Morgan street, north line of Fulton street.
One 8-inch, Morgan street, north line of Fourth street.
One 6-inch, Milwaukee avenue, north line of Augusta street.
One 4-inch, Milwaukee avenue, north line of Peoria street.
One 6-inch, Maxwell street, west line of Morgan street.
One 6-inch, Maxwell street, west line of Jefferson street.
One 6-inch, Margaret street, south line of Mitchell street.
One 4-inch, Meagher street, west line of Jefferson street.
One 6-inch, McHenry street, north line of North avenue.
One 6-inch, Monroe street, west line of Centre avenue.
One 4-inch, Monroe street, west line of Loomis street.
One 6-inch, Monroe street, west line of Morgan street.
One 8-inch, Noble street, south line of Division street.
One 8-inch, Noble street, north line of Augusta street.
One 4-inch, Park avenue, west line of Wood street.
One 4-inch, Park avenue, west line of Robey street.
One 4-inch, Park avenue, west line of Leavitt street.
One 4-inch, Park avenue, west line of Western avenue.
One 4-inch, Page street, north line of Kinzie street.
One 8-inch, Page street, north line of Park avenue.
One 8-inch, Page street, north line of Madison street.
One 6-inch, Paulina street, north line of Madison street.

One 6-inch, Paulina street, north line of Augusta street.
One 4-inch, Peoria street, south line of Van Buren street.
One 4-inch, Peoria street, north line of Fulton street.
One 4-inch, Polk street, west line of Desplaines street.
One 6-inch, Polk street, west line of Clinton street.
One 6-inch, Polk street, west line of Morgan street.
One 4-inch, Rebecca street, west line of Morgan street.
One 6-inch, Rockwell street, south line of Madison street.
One 6-inch, Robey street, north line of Park avenue.
One 6-inch, Robey street, north line of Madison street.
One 4-inch, Rumsey street, south line of Division street.
One 4-inch, Rumsey street, north line of Augusta street.
One 4-inch, Sangamon street, south line of Van Buren street.
One 4-inch, Sangamon street, north line of Fulton street.
One 4-inch, Sangamon street, north line of Fourth street.
One 6-inch, Seymour street, north line of Kinzie street.
One 4-inch, Sheldon street, north line of Fulton street.
One 6-inch, Sixteenth street, east line of Union street.
One 8-inch, Sixteenth street, west line of Morgan street.
One 6-inch, Sixteenth street, west line of Jefferson street.
One 4-inch, Silver street, south line of Harrison street.
One 6-inch, Sholto street, south line of Harrison street.
One 4-inch, Stewart avenue, south line of Mitchell street.
One 4-inch, String street, south line of Sixteenth street.
One 6-inch, Southwestern avenue, south line of Madison street.
One 16-inch, Twelfth street, west line of Centre avenue.
One 8-inch, Twelfth street, west line of Desplaines street.
One 8-inch, Twelfth street, west line of Clinton street.
One 8-inch, Twelfth street, west line of Morgan street.
One 4-inch, Throop street, south line of Madison street.
One 6-inch, Throop street, south line of Van Buren street.
One 6-inch, Twenty-second street, west line of Morgan street.
One 6-inch, Tyler street, west line of Morgan street.
One 6-inch, Taylor street, west line of Morgan street.
One 6-inch, Taylor street, west line of Clinton street.
One 8-inch, Union street, north line of Canalport avenue.
One 8-inch, Union street, north line of Sixteenth street.
One 16-inch, Union street, north line of Kinzie street.
One 8-inch, Union street, in the feeder at Lake street.
One 8-inch, Union street, in the feeder at Fulton street.
One 8-inch, Union street, south line of Mitchell street.
One 6-inch, Van Buren street, west line of Peoria street.
One 6-inch, Van Buren street, west line of Morgan street.

One 8-inch, Wayman street, east line of Union street.
One 8-inch, Wayman street, west line of Union street.
One 4-inch, Washington street, west line of Western avenue.
One 4-inch, Washington street, west line of Leavitt street.
One 4-inch, Washington street, west line of Morgan street.
One 6-inch, Washington street, west line of Ashland avenue.
One 8-inch, Western avenue, south line of Madison street.
One 8-inch, Western avenue, south line of Adams street.
One 8-inch, Western avenue, south line of Van Buren street.
One 6-inch, Wood street, north line of Madison street.
One 6-inch, Wood street, north line of Park avenue.
One 4-inch, Wright street, north line of North avenue.
One 6-inch, Wright street, west line of Jefferson street.
One 6-inch, Wright street, west line of Jefferson street. (Blow off.)

Total in the West Division, ... 226

NORTH DIVISION.

One 4-inch, Alaska street, west line of Larrabee street.
One 6-inch, Blackhawk street, west line of Larrabee street.
One 6-inch, Blackhawk street, west line of Sedgwick street.
One 4-inch, Cherry avenue, south line of Division street.
One 8-inch, Chicago avenue, east line of Wells street.
One 6-inch, Chicago avenue, east line of Clark street.
One 6-inch, Chicago avenue, west line of Rush street.
One 6-inch, Chicago avenue, east line of Rush street.
One 24-inch, Chicago avenue, at approach of W. P. tunnel.
Four 8-inch, Chicago avenue, in connections at Roberts street.
One 8-inch, Chicago avenue, at intersection of Roberts street. (Blow off.)
One 8-inch, Chicago avenue, west line of Townsend street.
One 6-inch, Connor street, west line of Sedgwick street.
One 6-inch, Clark street, north line of Menomonee street.
One 4-inch, Clark street, north line of Webster avenue.
One 6-inch, Clybourn avenue, east line of Halsted street.
One 6-inch, Division street, east line of Halsted street.
One 24-inch, Division street, at approach to W. P. tunnel.
One 6-inch, Division street, west line of Townsend street.
One 6-inch, Division street, west line of Larrabee street.
One 4-inch, Erie street, east line of Clark street.
One 4-inch, Erie street, west line of Market street.
One 4-inch, Erie street, west line of Townsend street.
One 6-inch, Erie street, east line of Rush street.
One 4-inch, Erie street (north side of street), east of Roberts street.

One 4-inch, Erie street (south side of street), east of Roberts street.
One 6-inch, Elm street, west line of Sedgwick street.
One 4-inch, Franklin street, north line of Ontario street.
One 8-inch, Hickory avenue, south line of Division street.
One 8-inch, Hickory avenue, north line of Division street.
One 16-inch, Halsted street, north line of Division street.
One 8-inch, Halsted street, south line of Division street.
One 16-inch, Halsted street, in the connection at Division street.
One 16-inch, Halsted street, north line of North avenue.
One 16-inch, Halsted street, south line of Centre street.
One 6-inch, Hawthorne avenue, north line of North avenue.
One 6-inch, Hawthorne avenue, west line of Larrabee street.
One 6-inch, Huron street, west line of Market street.
One 6-inch, Hurlbut street, north line Webster avenue.
One 4-inch, Hinsche street, south line of Clybourn avenue.
One 6-inch, Hobbie street, west line of Sedgwick street.
One 6-inch, Hobbie street, west line of Larrabee street.
One 6-inch, Haines alley, west line of Sedgwick street.
One 6-inch, Illinois street, between Clark and Dearborn streets.
One 6-inch, Illinois street, west line of Market street.
One 4-inch, Indiana street, west line of Market street.
One 4-inch, Indiana street, east line of Rush street.
One 6-inch, Larrabee street, north line of North avenue.
One 6-inch, Larrabee street, north line of Webster avenue.
One 6-inch, Larrabee street, south line of Clybourn avenue.
One 4-inch, Lincoln place, south line of Webster avenue.
One 6-inch, Lincoln avenue, west line of Wells street.
One 6-inch, Market street, south line of Chicago avenue.
One 4-inch, Market street, north line of Ontario street.
One 8-inch, Menomonee street, west line of Wells street.
One 6-inch, North Branch street, south line of Division street.
One 8-inch, North avenue, west line of Halsted street.
One 8-inch, North avenue, in feeder at Halsted street.
One 12-inch, North avenue, east line of Hurlbut street.
One 16-inch, North avenue, east line of Halsted street.
One 6-inch, North avenue, west line of Larrabee street.
One 6-inch, North avenue, west line of Orchard street.
One 4-inch, Ohio street, west line of Market street.
One 8-inch, Ontario street, west line of Market street.
One 6-inch, Orchard street, north line of North avenue.
One 6-inch, Orchard street, north line of Webster avenue.
One 8-inch, Oak street, west line of Rush street.
One 24-inch, Oak street, west of Wells street.

One 8-inch, Oak street, at intersection of Wells street. (Blow off.)
One 8-inch, Oak street, west line of Wells street.
One 8-inch, Oak street, in the feeder at Wells street.
One 8-inch, Oak street, east line of Clark street.
One 8-inch, Oak street, in the feeder at Wesson street.
One 6-inch, Oak street, west line of Sedgwick street.
One 8-inch, Oak street, west line of Larrabee street.
One 6-inch, Otis street, south line of Division street.
One 4-inch, Pine street, north line of Chicago avenue.
One 8-inch, Rush street, north line of Chicago avenue.
One 8-inch, Rush street, south line of Chicago avenue.
One 8-inch, Rush street, north line of Chicago avenue. (Blow off.)
One 8-inch, Rush street, north line of Oak street.
One 8-inch, Rees street, west line of Clybourn avenue.
One 8-inch, Rees street, east line of Halsted street.
One 8-inch, Rees street, west line of Halsted street.
One 8-inch, Rees street, in the feeder at Halsted street.
One 8-inch, Sheffield avenue, north line of North avenue.
One 4-inch, Superior street, west line of Market street.
One 6-inch, Schiller street, east line of State street.
One 6-inch, Schiller street, east line of Clark street.
One 6-inch, Sullivan street, west line of Sedgwick street.
One 6-inch, Sedgwick street, south line of Division street.
One 6-inch, Sedgwick street, north line of Webster avenue.
One 6-inch, Sedgwick street, west line of Larrabee street.
One 6-inch, Twomey street, west line of Sedgwick street.
One 6-inch, Vedder street, west line of Larrabee street.
One 8-inch, Wells street, south line of Chicago avenue.
One 6-inch, Wells street, north line of Menomonee street.
One 6-inch, Wells street, north line of Schiller street.
One 24-inch, Water Tower Yard, north of the Tower.
One 8-inch, Willow street, east line of Halsted street.
One 8-inch, Willow street, west line of Halsted street.
One 6-inch, Webster avenue, west line of Sedgwick street.
One 6-inch, Webster avenue, west line of Larrabee street.
Total in the North Division, ... 106

In all, 453. Making, with those previously put in, 1,076 stop-cocks of all sizes in the city, to April 1, 1871. Repairs were done upon 48 stop-cocks during the year, and 22 were renewed.

The work of dividing up the stop-cock districts, which were originally very large, was continued during the year, and has now

reached a point at which its practical benefits are very much felt by those in charge of the water supply. These benefits, which consist in reducing to a great extent the number of inhabitants who must be deprived temporarily of water in case of repairs or extensions, and in diminishing very much the risks from fire when districts are shut off, are not apt to be observed by the public generally; but their reality is clearly seen by the great falling off of complaints on this account at the office.

LAKE TUNNEL.

THIS structure has continued to perform its intended office very satisfactorily. The experience of former years with regard to anchor ice caused such precautions to be taken, that not even a partial or momentary interruption of the supply was felt during the past winter.

The Crib, which is but a temporary building above low water, begins to look very shabby, and it is hoped that as soon as all the difficulties in the way of commencing the proposed new Lake Tunnel can be removed, and that work sufficiently advanced, the upper part of the Crib may be replaced by a permanent and tasteful building.

186358A

PROPOSED NEW WATER WORKS.

OWING to difficulties outside the nature of the ground to be passed through, these works have not been commenced yet. No arguments with regard to the advisability of commencing them, in addition to those presented last year, can be offered now. In this connection the tabular statement to be found under the head of Consumption of Water is of importance.

SEWERAGE.

CHICAGO, March 31, 1871.

E. S. CHESBROUGH, ESQ., *City Engineer* : —

DEAR SIR: Herewith I submit my Annual Report, for the fiscal year ending with date, of the length of sewers built during that time, with their average cost, and a condensed statement of the total sewers of each size now laid in the city. Also a statement in detail of the location of all sewers built during the year, with their size and length, and an account of the sewers and catch-basins repaired, with cost. Also a statement of the length of sewers cleansed and the cost of the same, showing the different modes of cleansing. It will be observed that the cost of cleansing for the past year has been but $ 21,464, against about $ 26,000 for each of the previous three years. This decrease of cost has been due to the diminished cost of labor of men and of teams, as there has been more work done than in 1869 – 70. There has been, however, of late, so great an addition to the length of the sewers and the number of catch-basins, that it will not be possible to keep them long in good working order with the present appropriation of $ 20,000. It is anticipated, however, that there will be a diminution of the cost of repairs of sewers and of catch-basins, due to the better protection to them, caused by the extension of the filling and paving of the streets. I annex also a table of the number of private drains for which permits have been issued during the year, amounting to 5,187 of all sizes.

Yours respectfully,

WILLIAM H. CLARKE,

Principal Assistant Engineer.

LENGTH IN FEET OF SEWERS BUILT TO APRIL 1, 1871.

Diameters in Feet.	South Division.		West Division.		North Division.		Totals, Three Divisions.			
	Previous to April 1, 1870.	From April 1, 1870, to April 1, 1871	Previous to April 1, 1870.	From April 1, 1870, to April 1, 1871.	Previous to April 1, 1870.	From April 1, 1870, to April 1, 1871.	Totals, Previous to April 1, 1870.	Totals, April 1, 1870, to April 1, 1871.	Total Sewers built up to April 1, 1871.	Average Cost per Foot, 1870–1871.
6	2,408	. . .	1,292	. . .	3,895	. . .	7,595	. . . .	7,595	. . . .
5	6,038	. . .	32,175	2,855	13,756	. . .	51,967	2,855	54,822	$ 5.68
4½	2,349	. . .	39,292	. . .	9,615	. . .	51,256	. . . .	51,256	. . . .
4	5,400	. . .	31,454	7,663	7,053	. . .	43,907	7,663	51,570	4.63
3½	912	. . .	8,232	1,324	. . .	. . .	9,144	1,324	10,468	5.02
3	23,941	. . .	10,964	2,306	8,090	1,079	42,995	3,385	46,380	4.45
2½	49,618	1,004	3,431	863	13,130	3,260	66,179	5,127	71,306	2.89
2¼	6,359	. . .	. . .	. . .	. . .	. . .	6,359	. . . .	6,359	. . . .
2	55,604	5,114	107,594	10,217	69,010	9,402	232,208	24,733	256,941	2.01
1½	. . .	. . .	. . .	. . .	. . .	388	. . . .	388	388	2.19
1	89,128	6,224	71,092	16,878	50,166	9,589	210,386	32,691	243,077	1.49
	241,755	12,342	305,526	42,106	174,715	23,718	721,996	78,166	800,162	
Total by Divis'ns.	254,097		347,632		198,433		$136\frac{3916}{5280}$ Miles.	$144\frac{246}{5280}$ Miles.	$151\frac{2882}{5280}$ Miles.	

CATCH-BASINS AND MANHOLES BUILT.

	Built from April 1, 1870, to April 1, 1871.			Previously Built.	Total.	Average Cost, 1870–1871.
	S. Division.	W. Division.	N. Division.			
Catch-Basins . .	140	316	170	3,903	4,529	$ 77.21
Manholes . . .	89	223	156	4,803	5,271	

DETAILED STATEMENT OF SEWERS BUILT FROM APRIL 1, 1870, TO APRIL 1, 1871.

SOUTH DIVISION.

Location.			Length in Feet of Sewers built.		
On what Street.	From	To	2½ ft.	2 ft.	1 ft.
South Park ave. . .	365 ft. N. of 35th st. . .	Thirty-third st.	1,004	. .	. .
Twenty-fifth st. . .	W. line Cottage Grove ave.	Eastward	. .	50	. .
Northern ave. . . .	" " "	"	. .	43	. .
Twentieth st. . . .	Prairie ave.	Calumet ave.	. .	456	. .
South Park ave. . .	Thirty-third st.	Thirty-first st.	. .	1,315	. .
Fifteenth st. . . .	River st.	Burnside st.	. .	664	. .
Twenty-fifth st. . .	State st.	Butterfield st.	. .	631	. .
Sanger st.	Archer ave.	Twenty-fifth st.	. .	431	. .
Michigan ave . . .	Thirtieth st.	Northward	. .	522	. .
Prairie ave.	Twenty-ninth st. . . .	Thirtieth st.	. .	903	. .
South Park ave. . .	Thirtieth st.	Thirty-first st.	. .	. .	406
Twenty-fifth st. . .	Indiana ave.	Prairie ave.	. .	. .	367
Finnel st.	Archer ave.	Buddan st.	. .	. .	330
Twenty-fifth st. . .	South Park ave.	Illinois Central R. R. . .	. .	. .	517
Twenty-eighth st. . .	E. line Wabash ave. . .	Eastward	. .	. .	147
Archer ave.	41 f. E. of W. line of Wallace	85 ft. E. of E. line of Wallace	. .	. .	100
Fifteenth st. . . .	A point 9 ft. W. of E. line of Burnside st.	West line of Alley, looking South,	. .	. .	170
Cottage Grove ave. .	Indiana st.	Twenty-ninth st. . . .	. .	. .	3,839
		Carried forward, . . .	1,004	5,015	5,876

WING SEWERS ACROSS STREETS BEING PAVED.

Location.			Length in Feet of Sewers built.		
On what Street.	From	To	2½ ft.	2 ft.	1 ft.
		Brought forward, . . .	1,004	5,015	5,876
Murray st.	Archer ave. sewer . . .	S. line Archer ave. . .	. .	47	. .
McGregor st. . . .	Sanger st. " . . .	18 ft. E. of E. l. of Sanger	. .	52	. .
Ray st.	Prairie ave. " . . .	6 ft. E. of E. line of Prairie	. .	. .	40
Gano st.	" " " . . .	6 ft. " " "	. .	. .	40
Wallace st.	Archer ave. " . . .	9 ft. S. of S. line of Archer	. .	. .	49
Twentieth st. . . .	Clark st. " . . .	W. line of Clark st. . .	. .	. .	47
Seventeenth st. . .	E. line of Clark st. . . .	" " . . .	. .	. .	84
Alley S. from Jackson bet. Wells & Frank'n	Jackson st. sewer . . .	12 ft. S. of S. l. of Jackson st.	. .	. .	48
Thirtieth st. . . .	Prairie ave.	6 ft. W. of W. l. Prairie ave.	. .	. .	40
		Totals, 12,342 feet . . .	1,004	5,114	6,224

WEST DIVISION.

Location.			Length in Feet of Sewers built.						
On what Street.	From	To	5 ft.	4 ft.	3½ ft.	3 ft.	2½ ft.	2 ft.	1 ft.
Division st. . .	Noble st. . . .	Milwaukee ave. . .	1,085	. .	. .	. .	. .	. .	. .
Elston r. & Augusta	The River . . .	Milwaukee ave. . .	1,770	. .	. .	. .	. .	. .	. .
Centre ave. . .	Harbine st. . .	Southward . . .	. .	612	. .	. .	. .	. .	. .
W. Adams st. . .	Ashland ave. . .	Robey st.	. .	2,664	. .	. .	. .	. .	. .
Erie st.	Sangamon st. . .	Centre ave. . . .	. .	1,737	. .	. .	. .	. .	. .
W. Indiana st. .	Noble st. . . .	Wood st.	. .	2,650	. .	. .	. .	. .	. .
Centre ave. . .	Harbine st. . . .	Sixteenth st. . . .	. .	. .	1,324	. .	. .	. .	. .
Lake st.	423 W. of Leavitt st.	Western ave. . . .	. .	. .	. .	913	. .	. .	. .
Centre ave. . . .	Sixteenth st. . .	Mitchell st. . . .	. .	. .	. .	1,333	. .	. .	. .
Eighteenth st. .	W. line Seward st.	50 ft. W. of N. W. line Canalport ave.	. .	. .	. .	60	. .	. .	. .
Milwaukee ave. .	Augusta st. . .	Noble st.	. .	. .	. .	. .	643	. .	. .
Canalport ave. .	Morgan st. . . .	John st.	. .	. .	. .	. .	. .	989	. .
Honore st. . . .	Adams st. . . .	Northward . . .	. .	. .	. .	. .	. .	239	. .
Paulina st. . . .	Madison st. . .	Monroe st.	. .	. .	. .	. .	. .	458	. .
Aberdeen st. . .	Van Buren st. . .	Harrison st. . . .	. .	. .	. .	. .	. .	832	. .
Centre ave. . . .	Van Buren st. . .	Tyler st.	. .	. .	. .	. .	. .	418	. .
Peoria st. . . .	Harrison st. . .	Tyler st.	. .	. .	. .	. .	. .	365	. .
Honore st. . . .	At intersection of	Monroe st. sewer. .	. .	. .	. .	. .	. .	5	. .
Milwaukee ave. .	Noble st. . . .	Division st. . . .	. .	. .	. .	. .	. .	1,362	. .
Green st. . . .	Erie st.	Fourth st.	. .	. .	. .	. .	. .	380	. .
Carpenter st. . .	Indiana st. . . .	Fourth st.	. .	. .	. .	. .	. .	442	. .
Grover st. . . .	Chicago ave. . .	George st.	. .	. .	. .	. .	. .	800	. .
Sangamon st. . .	Milwaukee ave. .	Pratt st.	. .	. .	. .	. .	. .	519	. .
Curtis st. . . .	Indiana st. . . .	Hubbard st. . . .	. .	. .	. .	. .	. .	437	. .
May st.	Indiana st. . . .	Hubbard st. . . .	. .	. .	. .	. .	. .	436	. .
Carpenter st. . .	Indiana st. . . .	Hubbard st. . . .	. .	. .	. .	. .	. .	437	. .
Wood st. . . .	Indiana st. . . .	Hubbard st. . . .	. .	. .	. .	. .	. .	432	. .
Forquer st. . . .	Desplaines st. . .	Halsted st. . . .	. .	. .	. .	. .	. .	. .	636
Ewing st. . . .	Canal st. . . .	Halsted st. . . .	. .	. .	. .	. .	. .	. .	2,003
Sebor st. . . .	Desplaines st. . .	Halsted st. . . .	. .	. .	. .	. .	. .	. .	845
Mather st. . . .	Halsted st. . . .	Union st.	. .	. .	. .	. .	. .	. .	375
Canalport ave. .	John st.	Halsted st. . . .	. .	. .	. .	. .	. .	. .	411
Elizabeth st. . .	End of old work N. of Wash. st.	Alley bet. Washington and Randolph	. .	. .	. .	. .	. .	. .	40
Brown st. . . .	end of old work .	365 ft. S. of S. line of Twelfth st.	. .	. .	. .	. .	. .	. .	70
Ann st.	Randolph st. . .	Southward . . .	. .	. .	. .	. .	. .	. .	260
Monroe st. . . .	Loomis st. . . .	Westward	. .	. .	. .	. .	. .	. .	355
Monroe st. . . .	Lincoln st. . . .	Honore st. . . .	. .	. .	. .	. .	. .	. .	334
Jackson st. . . .	Aberdeen st. . .	Centre ave. . . .	. .	. .	. .	. .	. .	. .	635
Foster st. . . .	Polk st.	Line of Tyler st. . .	. .	. .	. .	. .	. .	. .	1,162
Dussold st. . . .	Jefferson st. .	Halsted st. . . .	. .	. .	. .	. .	. .	. .	1,241
O'Brien st. . . .	Jefferson st, exc. ½ bl. W. f. Union	Halsted st. . . .	. .	. .	. .	. .	. .	. .	1,007
Liberty st. . . .	Canal st. . . .	50 ft. W. of Stewart ave.	. .	. .	. .	. .	. .	. .	423
Barber st. . . .	Halsted st. . . .	Jefferson st. . . .	. .	. .	. .	. .	. .	. .	1,242
Catherine st. . .	Halsted st. . . .	Jefferson st. . . .	. .	. .	. .	. .	. .	. .	1,230
Hubbard st. . .	Morgan st. . . .	Centre ave. . . .	. .	. .	. .	. .	. .	. .	1,384
Hubbard st. . .	Wood st. . . .	Lincoln st. . . .	. .	. .	. .	. .	. .	. .	596
Laflin st. . . .	Adams st. . . .	Northward . . .	. .	. .	. .	. .	. .	. .	197
Hubbard st. . .	Centre ave. . . .	Westward	. .	. .	. .	. .	. .	. .	224
		Carried forward, ...	2,855	7,663	1,324	2,306	643	8,551	14,670

WING SEWERS ACROSS STREETS BEING PAVED.

Location.			Length in Feet of Sewers built.						
On what Street.	From	To	5 ft.	4 ft.	3¼ ft.	3 ft.	2½ ft.	2 ft.	1 ft.
	Brought	forward, ...	2,855	7,663	1,324	2,306	643	8,551	14,670
Milwaukee ave. .	Division st. sewer	Northwesterly . .	. .	. .	. .	. .	98	. .	. .
Noble st. . . .	32 ft. N. of S. line Division st. . .	18 ft. S. of S. line of Division st.	. .	. .	. .	. .	50	. .	. .
Noble st. . . .	Division st. sewer	21 ft. N. of N. line of Division st.	. .	. .	. .	. .	72	. .	. .
Western ave. . .	6 ft. S. of S. line Lake st.	6 ft. N. of N. line of Lake st.	. .	. .	. .	. .	. .	99	. .
Green st. . . .	Manhole on Van Buren st.	20 ft. S. of S. line Van Buren st.	. .	. .	. .	. .	. .	55	. .
Honore st. . .	Manhole on Mad. st.	6 ft. S. of S. line Madison st.	. .	. .	. .	. .	. .	45	. .
Lincoln st. . .	Manhole on Lake st.	6 ft. S. of S. line Lake st.	. .	. .	. .	. .	. .	43	. .
Robey st. . . .	Manhole on Lake st.	6 ft. N. & S. of Lake	. .	. .	. .	. .	. .	89	. .
Hoyne st. . . .	Manhole on Lake st.	6 ft. N. & S. of Lake	. .	. .	. .	. .	. .	88	. .
Leavitt st. . .	Manhole on Lake st.	6 ft. N. & S. of Lake	. .	. .	. .	. .	. .	97	. .
Oakley st. . .	6 ft. N. of N. l. Lake	6 ft. S. of S. line Lake st.	. .	. .	. .	. .	. .	91	. .
Wood st. . . .	S. line Park ave.	10 ft. N. of N. line Park ave.	. .	. .	. .	. .	. .	71	. .
Robey st. . . .	8 ft. S. of N. l. P. av.	4 ft. N. of S. line of Park ave.	. .	. .	. .	. .	. .	12	. .
Union st. . . .	Canalport av. sewer	20 ft. S. of S. line Canalport ave. 20 ft. N. of N. line Canalport ave.	. .	. .	. .	. .	. .	116	. .
Morgan st. . .	Van Buren st. sewer	9 ft. S. of S. line Van Buren st.	. .	. .	. .	. .	. .	40	. .
Centre ave. . .	Van Buren st. sewer	15 ft. S. of S. line Van Buren st.	. .	. .	. .	. .	. .	44	. .
Loomis st. . .	Van Buren st. sewer	12 ft. S. of S. line Van Buren st.	. .	. .	. .	. .	. .	50	. .
Mitchell st. . .	Halsted st. sewer	20 ft. W. of W. line Halsted st.	. .	. .	. .	. .	. .	58	. .
Jefferson st. . .	Canalport av. sewer	20 ft. S. of S. line Canalport ave.	. .	. .	. .	. .	. .	63	. .
Clinton st. . .	Twelfth st. sewer	7 ft. S. of S. line Twelfth st.	. .	. .	. .	. .	. .	44	. .
Elsworth st. . .	Polk st. sewer . .	18 ft. N. of N. line Polk st.	. .	. .	. .	. .	. .	45	. .
Sangamon st. .	Milwaukee ave. sew.	5 ft. S. of N. E. line Milwaukee ave.	. .	. .	. .	. .	. .	39	. .
Elston road . .	Division st. sewer	38 ft. N. of N. line Division st.	. .	. .	. .	. .	. .	92	. .
Cleaver st. . .	Division st. sewer	Northward . . .	. .	. .	. .	. .	. .	72	. .
Holt st. . . .	Division st. sewer	20 ft. N. of N. line Division st.	. .	. .	. .	. .	. .	69	. .
Dickson st. . .	Division st. sewer	20 ft. N. of N. line Division st.	. .	. .	. .	. .	. .	70	. .
Stewart ave. . .	Twelfth st. sewer	20 ft. S. of S. line Twelfth st.	. .	. .	. .	. .	. .	54	. .
Lumber st. . .	Twelfth st. sewer	20 ft. S. of S. line Twelfth st.	. .	. .	. .	. .	. .	50	. .
Elston road. . .	Division st. sewer	South	. .	. .	. .	. .	. .	70	. .
William st. . .	6 ft. E. of E. line Aberdeen st.	6 ft. W. of W. line of Aberdeen st.	. .	. .	. .	. .	. .	. .	84
Carroll st. . . .	Halsted st. sewer	6 ft. W. of W. line Halsted st.	. .	. .	. .	. .	. .	. .	40
Jackson st. . .	Aberdeen st. sewer	W. line Aberdeen st.	. .	. .	. .	. .	. .	. .	32
Charles st. . .	Van Buren st. . .	3 ft. S. of S. line Van Buren st.	. .	. .	. .	. .	. .	. .	33
Tyler st. . . .	6 ft. E. of E. line Aberdeen st.	6 ft. W. of W. line of Aberdeen st.	. .	. .	. .	. .	. .	. .	78
Jefferson st. . .	Canalport ave. .	20 ft. N. of N. line Canalport ave.	. .	. .	. .	. .	. .	. .	53
Irwin st. . . .	Canal st. sewer	20 ft. E. of E. line Canal st.	. .	. .	. .	. .	. .	. .	60
Ruble st. . . .	20 ft. S. of Canalport ave.	20 ft N. of Canalport ave.	. .	. .	. .	. .	. .	. .	109
String st. . . .	20 ft. S. of Canalport ave.	20 ft. N. of Canalport ave.	. .	. .	. .	. .	. .	. .	108
Blair st. . . .	M. H. Canalp't ave.	20 ft. S. of S. line of do.	. .	. .	. .	. .	. .	. .	63
Seward st. . . .	20 ft. S. 18th st.	20 ft. N. of do. . .	. .	. .	. .	. .	. .	. .	127
		Carried forward, ...	2,855	7,663	1,324	2,306	863	10,217	15,457

WING SEWERS ACROSS STREETS BEING PAVED.—Continued.

Location.			Length in Feet of Sewers built.						
On what Street.	From	To	5 ft.	4 ft.	3½ ft.	3 ft.	2½ ft.	2 ft.	1 ft.
	Brought	forward, ...	2,855	7,663	1,324	2,306	863	10,217	15,457
18th st. & Canalport ave. . . .	W. line Canal on 18th st. . . .	M. H. on Canalport ave. 94 ft. N. E. Seward st.	. .	. .	. .	. .	. .	. .	62
Canalport ave. .	M. H. 94 ft. E. of E. line Seward st.	E. 102 ft. W. 65 ft.	. .	. .	. .	. .	. .	. .	167
Centre ave. . .	20 ft. E. of E. line of Union st.	20 ft. W. of W. line of Union st.	. .	. .	. .	. .	. .	. .	103
Eagle st. . . .	Union st. sewer .	20 ft. W. of W. line Union st.	. .	. .	. .	. .	. .	. .	49
Bowery st. . .	Van Buren st. sewer	15 ft. S. of S. line Van Buren st.	. .	. .	. .	. .	. .	. .	42
Fourth ave. . .	20 ft. E. of E. line of Sangamon st.	17 ft. W. of W. line of Sangamon st.	. .	. .	. .	. .	. .	. .	102
Carroll st. . . .	20 ft. E. of E. line of Sangamon st.	20 ft. W. of W. line of do.	. .	. .	. .	. .	. .	. .	105
Holt st. . . .	Division st. sewer	20 ft. S. of S. line of do.	. .	. .	. .	. .	. .	. .	70
Foster st. . . .	20 ft. N. of N. line of Harrison st.	6 ft. S. of S. line of do.	. .	. .	. .	. .	. .	. .	88
Cleaver st. . . .	Division st. sewer	South	. .	. .	. .	. .	. .	. .	69
Meridian st. . .	Union st. sewer .	20 ft. E. of E. line of Union st.	. .	. .	. .	. .	. .	. .	50
Tyler st. . . .	Clinton st. sewer	20 ft. W. of W. line Clinton st.	. .	. .	. .	. .	. .	. .	65
Lydia st. . . .	20 ft. E. of E. line Union st.	20 ft. W. of W. line of do.	. .	. .	. .	. .	. .	. .	100
Lydia st. . . .	Sewer on Halsted st.	21 ft. E. of E. line of do.	. .	. .	. .	. .	. .	. .	56
Wayman st. . .	19 ft. W. of W. line Union st.	20 ft. E. of E. line of do.	. .	. .	. .	. .	. .	. .	104
Eagle st. . . .	Union st. sewer .	20 ft. E. of E. line of Union st.	. .	. .	. .	. .	. .	. .	53
Foster st. . . .	Polk st. sewer . .	6 ft. N. of N. line of Polk st.	. .	. .	. .	. .	. .	. .	30
Tyler st. . . .	Jefferson st. sewer	20 ft. E. of E. line Jefferson st.	. .	. .	. .	. .	. .	. .	53
Wayman st. . .	Halsted sewer . .	20 ft. E. of E. line Halsted st.	. .	. .	. .	. .	. .	. .	53
		Totals, 42,106 feet, . . .	2,855	7,663	1,324	2,306	863	10,217	16,878

NORTH DIVISION.

Location.			Length in Feet of Sewers built.				
On what Street.	From	To	3 ft.	2½ ft.	2 ft.	1½ ft.	1 ft.
Halsted st. . . .	Canal st.	Division st. . . .	487	. .	. .	. .	. .
Erie st.	River st.	Roberts st. . . .	112	. .	. .	. .	. .
Division st. . . .	River st.	N. Branch st. . .	480	. .	. .	. .	. .
Halsted st. . . .	Division st. . . .	Rees st.	. .	990	. .	. .	. .
Erie st.	Roberts st. . . .	Townsend st. . .	. .	778	. .	. .	. .
N. Wells st. . . .	Lincoln ave. . . .	Eugenie st. . . .	. .	1,014	. .	. .	. .
Hobbie st.	Bremer st. . . .	Sedgwick st. . . .	. .	. .	713	. .	. .
Elm st.	Bremer st. . . .	Sedgwick st. . . .	. .	. .	649	. .	. .
Vedder st.	Halsted st. . . .	Larrabee st. . . .	. .	. .	1,344	. .	. .
Rees st.	Halsted st. . . .	Larrabee st. . . .	. .	. .	1,232	. .	. .
Division st. . . .	Halsted st. . . .	Larrabee st. . . .	. .	. .	1,322	. .	. .
Grand Haven st. .	State st.	Eastward	. .	. .	317	. .	. .
Ontario st. . . .	32 ft. E. of W. line Kingsbury st.	W. l. Sedgwick st.	. .	. .	722	. .	. .
Kingsbury st. . .	Ontario st. . . .	Superior st. . . .	. .	. .	822	. .	. .
Townsend st. . . .	Erie st.	Huron st.	. .	. .	315	. .	. .
Division st. . . .	N. Branch st. . .	Hickory st. . . .	. .	. .	788	. .	. .
N. Wells st. . . .	North ave. . . .	Eugenie st. . . .	. .	. .	571	. .	. .
Division st. . . .	Hickory st. . . .	Hooker st. . . .	. .	. .	. .	388	. .
Wesson st.	132 ft. N. of Chicago ave.	Division st. . . .	. .	. .	. .	. .	2,447
Sedgwick st. . . .	Chicago ave. . .	Division st. . . .	. .	. .	. .	. .	2,427
Townsend st. . . .	White st.	Division st. . . .	. .	. .	. .	. .	1,769
Division st. . . .	Halsted st. . . .	Westward	. .	. .	. .	. .	161
Kingsbury st. . .	Centre of Ontario st.	South	. .	. .	. .	. .	14
Kingsbury st. . .	Superior st. . . .	Chicago ave. . .	. .	. .	. .	. .	266
Indiana st. . . .	74 ft. W. of W. line St. Clair st.	18 ft. E. of E. line St. Clair st.	. .	. .	. .	. .	158
Huron st.	Townsend st. . .	Eastward	. .	. .	. .	. .	220
Division st. . . .	Hooker st. . . .	N. Branch Canal .	. .	. .	. .	. .	330
N. Wells st. . . .	Lincoln ave. . . .	N. Clark st. . . .	. .	. .	. .	. .	241
		Carried forward, ...	1,079	2,782	8,795	388	8,033

WING SEWERS ACROSS STREETS BEING PAVED.

Location.			Length in Feet of Sewers built.				
On what Street.	From	To	3 ft.	2½ ft.	2 ft.	1½ ft.	1 ft.
	Brought	forward, ...	1,079	2,782	8,795	388	8,033
Hurlbut st. . . .	11 f. N. of N. l. N. av.	9 f. S. of S. l. North av.	. . .	88	. . .	. . .	. . .
Orchard st. . . .	North ave. sewer	15 f. N. of N. l. N. av.	. . .	52	. . .	. . .	. . .
Hawthorn ave. . .	" "	24 ft. S. of North av.	. . .	75	. . .	. . .	. . .
Dayton st.	" "	47 f. N. of N. l. N. av.	. . .	82	. . .	. . .	. . .
Sheffield ave. . . .	" "	27 ft. N. of North av.	. . .	61	. . .	. . .	. . .
Halsted st. . . .	" "	20 f. N. of N. l. N. av.	. . .	58	. . .	. . .	. . .
Sheffield ave. . . .	" "	29 ft. N. of North av.	. . .	62	. . .	. . .	. . .
Wells st.	M. H. N. av. "	9 ft. N. of N. l. N. av.	. . .	. . .	47	. . .	. . .
Kingsbury st. . .	21 ft. N. of N. l. Erie	20 ft. S. of S. l. N. av.	. . .	. . .	98	. . .	. . .
Roberts st. . . .	Erie st. sewer . .	24 ft. N. of N. l. Erie	. . .	. . .	60	. . .	. . .
Eugenie st. . . .	Wells st. " . .	4 f. W. of W. l. Wells	. . .	. . .	39	. . .	. . .
Superior st. . . .	Market st. " . .	21 f. W. of W. l. Market	. . .	. . .	61	. . .	. . .
Hawthorn ave. . .	North av. " . .	27 ft. N. of North av.	. . .	. . .	65	. . .	. . .
Smith st.	North av. " . .	28 ft. S. of North av.	. . .	. . .	61	. . .	. . .
Lowe st.	Wells st. " . .	3 f. W. of W. l. Wells	. . .	. . .	38	. . .	. . .
Florimond st. . .	" " . .	3 f. W. of W. l. Wells	. . .	. . .	38	. . .	. . .
Menomonee st. . .	" " . .	3 f. W. of W. l. Wells	. . .	. . .	38	. . .	. . .
Sheffield ave. . . .	North av. " . .	South	. . .	. . .	62	. . .	. . .
St. b. Wells & Frank'n	" " . .	6 ft. N. of S. l. N. av.	. . .	. . .	. . .	. . .	24
Franklin st. . . .	" " . .	16 f. S. of S. l. N. av.	. . .	. . .	. . .	. . .	44
St. betw. Franklin and Sedgwick	" " . .	2 ft. N. of S. l. N. av.	. . .	. . .	. . .	. . .	26
Church st. . . .	8 ft. S. of S. l. N. ave.	8 ft. N. of N. l. N. av.	. . .	. . .	. . .	. . .	88
Mohawk st. . . .	North ave. sewer	5 ft. N. of N. l. N. av.	. . .	. . .	. . .	. . .	43
Mohawk st. . . .	" "	7 ft. S. of S. l. N. ave.	. . .	. . .	. . .	. . .	36
Vine st.	" "	9½ f. N. of N. l. N. av.	. . .	. . .	. . .	. . .	49
Alley W. of Vine st.	" "	15 ft. S. of S. l. N. av.	. . .	. . .	. . .	. . .	43
Orchard st. . . .	" "	15 ft. S. of S. l. N. av.	. . .	. . .	. . .	. . .	43
St. Clair st. . . .	4 f. S. of S. l. Indiana	27 f. N. of N. l. Indiana	. . .	. . .	. . .	. . .	106
New Pine st. . . .	Chicago ave. sewer	12 f. N. of N. l. Chic. av.	. . .	. . .	. . .	. . .	57
Sedgwick st. . . .	Huron st. sewer	16 f. N. of N. l. Huron	. . .	. . .	. . .	. . .	55
Dayton st.	North ave. "	46 f. S. of S. l. N. ave.	. . .	. . .	. . .	. . .	78
Clybourn ave. . .	" "	N. W.	. . .	. . .	. . .	. . .	77
Halsted st. . . .	" "	19 ft. S. of S. l. N. av.	. . .	. . .	. . .	. . .	47
Burling st. . . .	" "	21 f. N. of N. l. N. av.	. . .	. . .	. . .	. . .	60
Block st.	" "	5 f. N. of N. l. N. av.	. . .	. . .	. . .	. . .	41
Locust (McCagg pl.)	M. H. on La Salle st.	18 f. E. of E. l. La Salle	. . .	. . .	. . .	. . .	58
Menomonee st. . .	Wells st. sewer	4 ft. E. of E. l. Wells	. . .	. . .	. . .	. . .	50
Eugenie st. . . .	" "	1 ft. E. of F. l. Wells	. . .	. . .	. . .	. . .	46
Vine st.	Division st. sewer	19 ft. N. of N. l. "	. . .	. . .	. . .	. . .	50
Selah st.	" "	17 ft. S. of S. l. "	. . .	. . .	. . .	. . .	50
Otis st.	" "	19 ft. N. of N. l. "	. . .	. . .	. . .	. . .	52
Pleasant st. . . .	" "	17 ft. N. of N. l. "	. . .	. . .	. . .	. . .	50
Penn st.	" "	17 ft. N. of N. l. "	. . .	. . .	. . .	. . .	50
Crosby st.	" "	22 f. S. W. of S. l. "	. . .	. . .	. . .	. . .	62
Grace st.	" "	17 ft. N. of N. l. "	. . .	. . .	. . .	. . .	50
Hills st.	M. H. in Sedgwick	32 ft. E. of Sedgwick	. . .	. . .	. . .	. . .	64
Sheffield ave. . . .	North ave. sewer	South	. . .	. . .	. . .	. . .	62
	Totals, 23,718 feet	. . . . .	1,079	3,260	9,402	388	9,589

REPAIRS OF SEWERS, CATCH-BASINS, AND COVERS FOR 1870-71.

Divisions.	Repairs of Sewers.			Catch-basins and Manholes repaired and rebuilt.		Covers repaired and restored.		Totals by Divisions.
	Size.	Feet repaired & relaid.	Cost.	No.	Cost.	No.	Cost.	
South Division,	2½ & 3	146	$1,563.09	53	$549.25	291	$1,156.00	$3,268.34
West Division,	1, 2, 3½, & 5	147	966.00	66	1,100.52	169	1,139.00	3,205.52
North Division,	1, 2, 3½, & 6	1,438	2,732.84	62	757.54	120	990.50	4,480.88
Totals, . .	. . . . .	1,731	$5,261.93	181	$2,407.31	580	$3,285.50	$10,954.74

CLEANSING OF SEWERS FOR 1870-71.

Method of Cleansing.	South Division.		West Division.		North Division.		Totals.		
	Feet Cleansed.	Cost.	Feet Cleansed.	Cost.	Feet Cleansed.	Cost.	Feet Cleansed.	Cost.	Per 100 ft.
by Flushing . .	111,320	$1,958.65	100,795	$1,974.88	7,615	$152.00	219,730	$4,085.53	$1.85
by Chain Machine	39,325	3,382.89	81,426	3,386.35	50,024	1,915.37	170,775	8,684.61	5.08 av'age.
Total Sewers . .	150,645	$5,341.54	182,221	$5,361.23	57,639	$2,067.37	390,505	$12,770.14	$3.27
Catch-basins cl'ned	No. of 1,013	2,872.03	No. of 1,278	3,893.38	No. of 683	1,928.68	No. of 2,974	8,694.09	each. $2.92
Total Sewers and Catch-basins . .		$8,213.57		$9,254.61		$3,996.05		$21,464.23	

PRIVATE DRAINS.

PERMITS ISSUED FROM APRIL 1, 1870, TO APRIL 1, 1871.

Part of City.	6-inch Drains.	9-inch Drains.	12-inch Drains.	Total in 1870-71.	Total laid previously.	Total laid to April 1, 1871.
South Division . .	896	29	13	938	. . . .	. . . .
West Division . .	2,546	21	2	2,569	. . . .	. . . .
North Division . .	1,673	6	1	1,680	. . . .	. . . .
Totals, . . .	5,115	56	16	5,187	19,803	24,990

CONDITION OF THE RIVER.

UNDER this head in the last Annual Report attention was called to the condition of the North Branch, and various plans proposed for remedying the evil connected with it were discussed. No additional light on this subject has been obtained during the year, and perhaps none should be expected until after the work of deepening the Illinois and Michigan Canal shall have been finished, which it is hoped will be shortly.

A typographical or clerical error of considerable importance was overlooked on page 123 of last year's Report. In speaking of the bottom of the proposed covered canal between the lake and the North Branch, it was stated to be 24 feet below low water; it should have been 14 feet.

HARBOR.

THE plans adopted by the General Government for the extension of the South Pier, and for the formation of the Outer Harbor, mentioned in the last Annual Report, have been partly carried out. Colonel D. C. Houston, now in charge of these works, has kindly furnished the following information: —

In 1870 the appropriation of $ 100,000 by Congress for this harbor was nearly all expended on the extension of the South Pier and the first 900 feet of the breakwater which is to form the front or outer side of the Outer Harbor. A like sum having been appropriated for the work this year, will probably be expended in extending the breakwater to a point about 2,000 feet south of the end of the South Pier. According to the plan adopted for the Outer Harbor, the Breakwater is to extend 4,000 feet in front of the city, and then to be connected by a pier running west to the breakwater of the Illinois Central Railroad, and about 3,400 feet in length. It has been proposed to change this part of the plan, and expend the money that would be required for the east and west pier on an extension of the outer breakwater still farther south. There are strong reasons why this should be done, especially if a system of docks for the accommodation of shipping business is to be built on the lake front.

The opening left between the outer ends of the North and South Piers is 500 feet wide. The South Pier extends back 300 feet from the breakwater, where begins the entrance to the Outer Harbor, which is to be permanently about 600 feet wide.

The breakwater is 20 feet wide, and to be finished 6 feet above ordinary level of the lake, or, if found necessary, to be 8 feet above that level.

WASHINGTON STREET RIVER TUNNEL.

THE importance of this work to the public continues to be shown by the increasing use made of it.

The leakage continues to diminish, but is still more than desirable, for the frosts of winter have caused some of the softer bricks in the main pier under the river to crack and partially disintegrate. These have been removed and harder ones substituted. This difficulty was confined entirely to the archways through the pier, where the bricks had to be cut, and the workmen were tempted to use rather soft ones, and where the inspection was not sufficiently rigid.

LA SALLE STREET RIVER TUNNEL.

THIS work, as described in last year's Report, is now so near completion that there can be no doubt of its final success and opening for use by the public as early as was promised by the contractors, that is, by the 1st of July of this year.

On the 31st of March, of the entire length of the work from the beginning of the north approach, 1,467 lineal feet were completed, leaving 423 lineal feet to be made. Of the part completed, 218 feet was of open work, 114 feet of girder work (under Kinzie Street), 406 feet of archwork north of the river, 300 feet across the river, and 429 feet of archwork south of the river. Of the part remaining to be done, 35 feet was archwork, 60 feet girder work (under Lake Street), and 328 feet open approach.

The arches under the river are very dry and satisfactory. The faces of the abutments under the river are damp, but it is believed this will cause no inconvenience, as there is no dropping from any point overhead, neither is there from any of the arches on either side of the river.

Respectfully submitted,

E. S. CHESBROUGH,
City Engineer.

STREETS AND BRIDGES.

CHICAGO, April 1, 1871.

To the Board of Public Works of the City of Chicago:—

GENTLEMEN: Your Superintendent of Streets and Bridges presents his Report for the year ending March 31, 1871.

One of the most important items connected with this department is that of Bridges. In the Ninth Annual Report it was stated that the slow-moving float-bridge was fast giving way to the elevated truss-bridge, revolving on a central pivot and pier. At this time not one of those relics of the earlier days of Chicago can be seen upon the river or its branches. There are now upon the main river and branches twenty-seven pivot bridges, sixteen of which are constructed with iron chords and wooden braces, and iron turn-tables; one entirely of iron, and ten of wooden truss and wooden turn-table.

In 1864 the first bridge was constructed on the new principle of iron chords and wood braces. It was predicted by many at that time that the system would prove a failure; but to-day, after a test of seven years of the most severe character, this structure appears in as good condition (so far as the truss and turn-table are concerned) as when first erected. When the wooden bridges now fast going to decay shall be replaced by bridges built on this principle, the cost of keeping in repair and rebuilding must necessarily be greatly reduced; for it is a well-known fact that a wooden bridge cannot be used in safety for a longer period than nine or ten years. The improved bridge, in my opinion, with less cost for repairs, will do good service for from twenty to thirty years.

It would be a matter of economy, could we construct this class of bridges upon stone centre-piers and abutments; but owing to the constant demand for more bridges, and an increased outlay for tending and repairing, it would seem of doubtful policy to increase the already burdensome expenditures in this department.

Among the important improvements of the past year are the

building of substantial stone abutments at Van Buren Street bridge; the building of a new bridge over the Illinois and Michigan Canal at Western Avenue; a new bridge at Erie Street, and a new bridge on the South Branch at Twenty-second Street.

All the bridges are in good condition except those at South Halsted Street, Clybourn Avenue, and Wells Street crossings. The first-named is in such a decayed state as to be unsafe for the heavy travel on that thoroughfare, and should be removed and replaced by a new one without delay. The Wells Street and Clybourn Avenue bridges will probably do service one or two years longer.

HARBOR.

OWING to the liberal appropriation made and the large amount of work done in dredging the river the past year, the Harbor is in good condition, and navigable for the largest class of vessels from Archer Avenue, on the South Branch, to Clybourn Avenue, on the North Branch. The docks at street ends are generally in good repair.

STREETS.

THERE were in the city at the close of the year, March 31, 1870, thirty-seven miles of streets, paved with wooden block pavement, since which time there have been paved in the North Division, $4\frac{96}{100}$ miles of streets; in the South Division, $4\frac{92}{100}$ miles; and in the West Division, $9\frac{53}{100}$ miles. Total in the three Divisions, $19\frac{41}{100}$ miles. Total number of miles paved with wooden blocks, March 31, 1871, $56\frac{41}{100}$. In addition to the wooden pavement there are in the city $3\frac{88}{100}$ miles of boulder and block stone pavement, $11\frac{45}{100}$ miles of Macadam, $6\frac{5}{100}$ miles of gravelled, and 4 miles of cindered streets. Total number miles of improved streets, $82\frac{28}{100}$.

It is not necessary to call your attention to the cleanly condition of the paved streets of the city generally, as the work shows for itself. Much credit is due the contractor for the faithful manner in which he has performed his duties in carrying out the provisions of his contract.

Your attention is respectfully called to the following table, showing the cost of cleaning the improved streets, the cost of repairing streets, and of the material used in such repairs: —

Divisions.	Cleaning Improved Streets.	Repairing Streets.	Cost of Materials used in Street Repairs.				
			Lumber.	Spike and Nails.	Gravel.	Macadam.	Cinders.
North, . .	$16,927.35	$41,349.89	$4,559.12	$713.32	$1,055.40	$1,377.14	$83.00
South, . .	37,479.65	58,537.52	11,042.31	952.62	3,415.50	1,477.90	877.60
West, . . .	30,365.60	110,949.47	17,599.05	1,736.13	903.35	12,476.74	1,246.50
Total, . .	$84,772.60	$210,836.88	$33,200.48	$3,402.07	$5,374.25	$15,331.78	$2,207.10

Cost of Tools for street work and repairs in North, West, and South Divisions, $720.

STREET SIGNS.

The plan recently adopted by the Board, of placing the names of streets upon the lamps of the city, is worthy of commendation, and seems to give general satisfaction. I know of but one objection to the plan, and that is, the liability of the lamps being so changed as to place the names on the wrong streets. A little care on the part of those having charge of cleaning and repairing the lamps would entirely overcome this objection.

Respectfully submitted,

J. K. THOMPSON,
Sup't Streets and Bridges.

FINANCIAL STATEMENT.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

WATER DEPARTMENT.

	Dr.	Cr.
Water Works,	$4,195,693.70	
Water Works Income,		$3,681,584.68
Water Fund in hands of City Treasurer,	1,007,467.87	
Water Loan Bonds, 6%,		1,030,000.00
Water Loan Bonds, 7%,		3,790,000.00
Water Loan Interest,	1,651,845.21	
Water Expense and Repairs,	1,351,776.79	
Discount on Bonds,	71,280.11	
Duncan, Sherman, & Co., Coupon Account,	11,995.00	
The Knap Fort Pitt Foundry,	41,730.22	
Water Works Coal Account,	352.01	
Water Works Stock,	32,661.45	
Lake Tunnel Extension,	14,736.20	
Water Works New Engine,	27,735.77	
Water Pipe Account,	22,405.67	
Water Service Cocks,	4,505.31	
Water Pumping Works Account,	7,655.04	
E. M. Johnson,	500.00	
S. Fulton & Co.,		1,687.07
Van Buren Street Water Service Pipe,	1,757.04	
Blue Island Avenue Water Service Pipe,	780.11	
Prairie Avenue Water Service Pipe,	1,106.20	
Twelfth Street Water Service Pipe,	1,131.63	
Sangamon Street Water Service Pipe,	1,644.39	
Amounts carried forward,	$8,448,759.72	$8,503,271.75

	Dr.	Cr.
Amounts brought forward,	$ 8,448,759.72	$ 8,503,271.7
Dearborn Street Water Service Pipe,	955.27	
Huron Street Water Service Pipe,	987.60	
Lake Street Water Service Pipe,	5,785.97	
Monroe Street Water Service Pipe,	141.61	
Ohio Street Water Service Pipe,	669.82	
Division Street Water Service Pipe,	50.13	
Madison Street Water Service Pipe,	6,653.15	
Kinzie Street Water Service Pipe,	440.55	
Polk Street Water Service Pipe,	401.59	
Wabash Avenue Water Service Pipe,	1,916.65	
Fourteenth Street Water Service Pipe,	72.24	
Calumet Avenue Water Service Pipe,	296.72	
Randolph Street Water Service Pipe,	3,176.59	
Harrison Street Water Service Pipe,	361.10	
Park Avenue Water Service Pipe,	3,215.50	
Archer Avenue Water Service Pipe,	2,497.35	
Jackson Street Water Service Pipe,	1,930.28	
Chicago Avenue Water Service Pipe,	1,201.80	
La Salle Street Water Service Pipe,	525.31	
Halsted Street Water Service Pipe,	575.69	
Indiana Street Water Service Pipe,	1,426.00	
Canalport Avenue Water Service Pipe,	630.79	
Aberdeen Street Water Service Pipe,	829.70	
Illinois Street Water Service Pipe,	216.32	
Erie Street Water Service Pipe,	1,570.91	
Union Street Water Service Pipe,	840.46	
Milwaukee Avenue Water Service Pipe,	1,309.75	
Market Street Water Service Pipe,	1,634.46	
Michigan Avenue Water Service Pipe,	995.90	
Twenty-fourth Street Water Service Pipe,	51.00	
Wells Street Water Service Pipe,	1,416.20	
Washington Street Water Service Pipe,	1,396.61	
Sherman Street Water Service Pipe,	83.00	
Warren Avenue Water Service Pipe,	1,547.75	
Griswold Street Water Service Pipe,	285.93	
Twenty-eighth Street Water Service Pipe,	113.50	
Sedgwick Street Water Service Pipe,	919.21	
Carl Street Water Service Pipe	90.00	
Larrabee Street Water Service Pipe,	854.68	
Loomis Street Water Service Pipe,	255.25	
Amounts carried forward,	$ 8,497,082.06	$ 8,503,271.7

	Dr.	Cr.
Amounts brought forward, . .	$ 8,497,082.06	$ 8,503,271.75
›uth Park Avenue Water Service Pipe,	2,785.90	
ıperior Street Water Service Pipe, .	641.82	
wenty-sixth Street Water Service Pipe, .	609.06	
ntario Street Water Service Pipe, .	683.18	
[ichigan Street Water Service Pipe, .	254.60	
ingsbury Street Water Service Pipe, .	36.62	
heldon Street Water Service Pipe, . .	66.50	
reen Street Water Service Pipe, .	1,112.01	
	$ 8,503,271.75	$ 8,503,271.75

WATER FUND.

STATEMENT of the Cash Receipts by the Board of Public Works from April 1, 1870, to March 31, 1871, inclusive, and detailed Statement of the cost of various operations conducted by the Board during the same time: —

RECEIPTS.

Proceeds of 1,500 Bonds sold,	$ 1,462,500.00	
Water Tax collected,	539,318.71	
Received for Tapping Pipes,	14,549.90	
" Letting on Water,	979.64	
" Water Service Pipe,	41,472.86	
" Labor and Material,	13,589.83	
" Interest accrued on Bonds,	5,118.87	
" Setting Meters,	2,372.63	
" Laying Service Pipe,	952.41	
" Pipe broken,	486.12	
" Coal sold,	494.00	
" Plumbers' Licenses,	44.10	
" Sale of old Awning,	39.30	
Total Cash Receipts,	$ 2,081,918.37	
Balance in hands of City Treasurer, April 1, 1870,	48,667.46	
		$ 2,130,585.83

EXPENDITURES.

ADDITION TO WATER WORKS.

DISTRIBUTING PIPES AND SUPPLY MAINS LAID.

		Cash Payment.	True Cost.
Cast-iron pipe, 4, 6, 8, 12, 16, and 24 inch,	$ 206,898.83		
Trenching and Backfilling,	12,737.06		
Labor laying Pipe,	73,038.85		
Lead,	26,478.76		
Castings,	22,678.11		
Constructing Tunnels under the River,	14,961.55		
Hauling Pipe,	5,273.12		
Cement,	3,604.59		
Keeping Horses,	1,139.24		
Salary of Assistant Engineer,	3,564.00		
Brick,	6,922.15		
Rent of Pipe Yard,	1,794.38		
Car Fares,	212.00		
Tools,	583.62		
Advertising,	519.44		
Sewer Pipe,	859.00		
Plumbing,	807.00		
Rope, Gasket, &c.,	924.80		
Iron Work,	256.65		
Hose,	406.45		
Stone,	136.40		
Lumber,	548.80		
Hardware,	368.00		
Covers,	261.00		
Use of Scow,	518.60		
Two bay Horses,	400.00		
One Horse and Buggy,	400.00		
Repairing Harness, Wagons, &c.,	282.10		
Three Wagons,	535.00		
Stationery,	187.62		
Coal,	271.75		
Amount carried forward,	$ 387,568.87		

		Cash Payment.	True Cost.
Amount brought forward,	$ 387,568.87		
Brass Castings, ...	357.20		
Travelling Expenses, . .	43.50		
Oil, &c., ...	43.95		
Repairing Buggy, . .	63.45		
One Scale, ...	55.00		
Stock, ...	56.45		
Miscellaneous, ...	43.48		
		$ 388,231.90	
ADD —			
Pipe used, previously paid for,	$ 101,707.23		
" not yet paid for, .	1,947.90		
New Hydrants, Stop-cocks, and Labor at Shops in 1870, .	28,737.22		
Coal used, ...	656.87		
	$ 133,049.22		
DEDUCT —			
Amount received for Labor and Material from private Parties,	12,425.60		
	$ 120,623.62		
			$ 508,855.5
NEW ENGINE.			
Paid Knap Fort Pitt Foundry	$ 41,500.00		
Dimension Stone for Foundation,	4,647.95		
Lumber, ...	1,238.86		
Travelling Expenses, . .	306.62		
Printing, ...	94.50		
Advertising, ...	104.00		
Plumbing, ...	48.99		
Freight, ...	209.95		
Drilling Stone, ...	123.00		
Damages, ...	156.00		
		48,429.87	
ADD —			
Amount paid for Labor at Pump Works, ...	$ 20,165.52		
Amount paid for Coal used, .	144.29		
	$ 20,309.81		68,739.6
Amounts carried forward, . . .		$ 436,661.77	$ 577,595.2

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$ 436,661.77	$ 577,595.20
NEW TOWER.			
Stairway, ...	$ 1,268.20		
Iron Fence, ...	5,000.00		
Painting, ...	86.25		
Carpenter Work, . .	342.50		
Architect, ...	175.00		
		6,871.95	
ADD —			
For one 30-inch Stop-cock, .	$ 24.30		6,896.25
Labor at Shop in 1870, . .	20.27		20.27
LAKE TUNNEL EXTENSION.			
Brick, ...	$ 12,502.55		
Labor, ...	1,430.00		
Advertising, ...	57.50		
Draughtsman, ...	550.00		
Analyzing Water, . . .	152.00		
Demijohns, ...	10.40		
		14,702.45	
ADD —			
Labor at Shops in 1870, . .	$ 33.75		
			14,736.20
NEW INLET.			
Dredging, ...	$ 1,513.00		
Use of Tug, ...	125.00		
		1,638.00	
ADD —			
Labor at Shop in 1870, . .	$ 1,605.28		3,243.28
Total Addition to Water Works,		$ 459,874.17	$ 602,491.20

WORKING EXPENSES AND REPAIRS.

		Cash Payment.	True Cost.
Salaries of Engineer and Assistants, Pump Works, . .	$ 8,210.00		
9,328 $\frac{1242}{2000}$ tons of Coal, Pump Works, ...	68,557.79		
Labor, ...	34,455.00		
Lumber, ...	3,345.87		
Horse Feed, ...	1,245.26		
Oil, ...	1,263.47		
Castings, ...	17,999.43		
Iron, Nails, and Bolts, . .	2,447.44		
Gas used, ...	1,238.57		
One Pump, ...	186.15		
One Lathe, ...	738.91		
Cement, ...	355.50		
Plumbing, ...	145.81		
Lead, ...	736.24		
Brass Castings, ...	222.10		
Bloss. Coal, ...	118.75		
Rope, Gasket, and Packing, .	528.37		
Hardware, ...	179.19		
Ice, ...	19.85		
Lamps, &c., ...	19.50		
Repairing Boilers, . .	85.73		
Belting, ...	66.55		
Miscellaneous, ...	38.35		
Repairing Harnesses and Wagons,	44.47		
Sprinkling, ...	92.25		
Leather, ...	82.91		
Copper, ...	36.11		
Soap, ...	46.70		
Brooms, ...	21.25		
Stationery, ...	99.28		
Paint, ...	55.46		
		$ 142,682.26	
Amount carried forward, . . .		$ 142,682.26	

			Cash Payment.	True Cost.
Amount brought forward, . . .			$ 142,682.26	
ADD —				
Coal used and previously paid for, .	$ 470.83			
Material used and previously paid for, . . .	248.51			
	$ 719.34			
DEDUCT —				
Hydrants, Stop-cocks, and Labor used for and charged to Extension, Repairs, and other Water Accounts . .	$ 60,964.70			
Labor at Shop in 1870, . . .	1,164.23			
	$ 62,128.93			
		$ 61,409.59		
				81,272.67

OFFICE EXPENSES AND SALARIES.

Salaries of Commissioners, .		$ 3,999.96		
Salary of Secretary, . . .		1,000.00		
Salary of Superintendent, .		1,000.00		
Salary of City Engineer, . .		1,500.00		
Salaries of Book-keepers and Clerks,		3,900.00		
Salaries of Collectors, . . .		7,200.00		
Salaries of Assessor and Assistant,		3,700.00		
Salary of Draughtsman, . .		1,800.00		
Salaries of Engineers, . . .		2,100.00		
Salaries of Office Clerks, . .		2,700.00		
Salaries of Cashier and Assistant,		900.00		
Salaries of Janitor and Assistants,		1,409.95		
Stationery, ...		1,073.36		
Advertising, ...		2,430.67		
Labor, ...		4,619.24		
Office Rent, ...		2,335.42		
Coal, ...		73.33		
Car Fares, ...		146.05		
Amounts carried forward,		$ 41,887.98	$ 142,682.26	$ 81,272.67

			Cash Payment.	True Cost.
Amounts brought forward,		$41,887.98	$142,682.26	$81,272.(
Printing,		977.71		
Revenue Stamps,		155.67		
Blank Books,		358.26		
Furniture,		127.19		
Miscellaneous Cash Items,		143.56		
Plumbing,		644.31		
Engraving Bonds,		188.50		
Express on Bonds,		980.40		
Hardware,		159.68		
Printing 9th Annual Report,		266.29		
Lumber,		11.74		
Gas,		48.47		
Use Tug,		30.00		
Paint,		26.00		
Brooms, Dusters, and Matches,		71.82		
Daily Papers,		26.82		
Horse Feed,		16.44		
Maps,		40.67		
Ice,		54.12		
			46,215.63	
DEDUCT —				
Amount received from Service Pipe Assessments,	$535.59			
Amount received from Plumbers' Licenses,	40.05			
Amount received from Coal sold,	51.30	$626.94		
				45,588.
REPAIRS OF PIPE, HYDRANTS, STOP-COCKS, AND MISCELLANEOUS OPERATING EXPENSES.				
Labor,		$33,994.84		
Castings,		2,568.12		
Salary of Hydrant Inspectors,		6,430.00		
Taxes on Water Property,		5,733.89		
Repairing Leaks,		757.34		
Dredging,		1,289.90		
Horse Feed,		115.95		
Amounts carried forward,		$50,890.04	$188,897.89	$126,861.

			Cash Payment.	True Cost.
Amounts brought forward,		$ 50,890.04	$ 188,897.89	$ 126,861.36
. . . . .		342.00		
Bark, ...		121.50		
Wall at Water Works, .		662.07		
er, ...		937.12		
ng Water, ...		31.50		
. . . . .		336.80		
ring Buggy, ...		89.50		
for Workmen at Night,		70.50		
bing, ...		112.10		
. . . . .		7.25		
nt, ...		7.46		
. . . . .		19.75		
llaneous Cash Items, . .		6.20		
North Boiler to replace old one,		8,669.00		
			62,302.79	
D —				
ant and Stop-				
ks used, . .	$ 3,665.90			
rs of perma-				
nt Tools, . .	1,254.66			
hing Reservoir,				
ding Lot, &c.,	1,203.13			
eciation of Me-				
s, ...	6,501.25			
used, .	500.00			
used, . .	6.98			
		$ 13,131.92		
DUCT —				
ant received for letting on				
ater, ...		1,059.64		
		$ 12,072.28		
				74,375.07
LAKE TUNNEL.				
r at Crib, including Salary of				
eper, ...		$ 1,471.50		
of Tug, ...		856.00		
&c., ...		229.02		
Amounts carried forward,		$ 2,556.52	$ 251,200.68	$ 201,236.43

			Cash Payment.	True Cost.
Amounts brought forward,		$ 2,556.52	$ 251,200.68	$ 201,236
Board of Laborers, ...		143.45		
Lead Pipe, ...		8.40		
Keeping Ice away from Crib, .		79.00		
Oakum, Rope, &c., ...		17.92		
Assistant Engineer, ...		65.00		
Shingling Crib, ...		7.50		
Nails for Crib, ...		7.91		
Lumber for Crib, ...		51.80		
Stove-pipe for Crib, ...		1.95		
Use of Scow, ...		30.00		
One Gauge, ...		8.55		
Miscellaneous, ...		6.50		
			2,984.50	2,98
WATER METERS.				
New Meters, ...		$ 7,012.50		
Castings, ...		1,155.71		
Labor, ...		1,664.25		
Machinist and Assistant, . .		2,016.63		
Freight on Meters, . . .		321.54		
Lumber, ...		124.00		
Plumbing, ...		235.06		
Packing Meters, ...		127.40		
Repairing Wagon, ...		111.75		
Nails, ...		17.00		
Hardware, ...		38.48		
Saw-dust, ...		39.44		
Stationery, ...		16.50		
			12,880.26	
ADD —				
For Labor at Shops in 1870, ...	$ 120.78			
DEDUCT —				
New Meters charged Stock, ...	$ 6,805.00			
Amount received for setting Meters, . .	2,372.63			
	$ 9,177.63	$ 9,056.85		
				3,8
Amounts carried forward, ...			$ 267,065.44	$ 208,0

	Cash Payment.	True Cost.
Amounts brought forward, . . .	$ 267,065.44	$ 208,044.34
WATER WORKS SHOPS.		
st of running Shops for 1870, . .		3,928.74
Total operating Expenses, . .	$ 267,065.44	$ 211,973.08

WATER LOAN INTEREST.

		Cash Payment.	True Cost.
Interest on Water Bonds, July 1, 1870,	$ 97,222.45		
Interest on Water Bonds, January 1, 1871,	137,613.17		
Coupons paid by City Treasurer,	40,454.55		
Paid general Sinking Fund,	3,500.00		
Paid Premium on Gold,	8,299.18		
		$ 287,089.35	
ADD —			
Amount transferred from Discount Account,	$ 4,578.77		
DEDUCT —			
Amount received for accrued Interest,	5,118.87		
	$ 540.10		
			$ 286,549.2

MISCELLANEOUS.

SERVICE COCKS.

				Cash Payment.	True Cost
Taps and cast-iron Boxes purchased,			$ 12,484.35		
Labor tapping Pipes,			2,974.75		
Permit Clerk,			1,550.89		
Repairing Harnesses and Wagons,			169.55		
Hardware,			14.50		
Printing,			38.75		
Advertising,			96.88		
Rubber Coats,			32.50		
Teaming,			27.00		
Doctoring Horse,			30.00		
				$ 17,419.17	
ADD —					
Tappers' Tools and Stable Expenses,	$ 1,544.14				
DEDUCT —					
Cash Receipts for Tapping,	$ 14,559.90				
Service Cocks sold	5,611.09				
		$ 20,170.99			
			$ 18,626.85		
Net Profit of	$ 1,207.68				

WATER PIPE.

Pipe purchased and not used,	49,870.86	$ 49,870.86

INCOME.

Tax overpaid refunded,	138.52	138.52

STOCK ACCOUNT.

One new Wagon,	215.00	215.00
Amount of Money advanced to pay discharged Laborers,	500.00	500.00
Amounts carried forward,	$ 68,143.55	$ 50,724.38

		Cash Payment.	True
Amounts brought forward,		$ 68,143.55	$ 50,7

WATER SERVICE PIPE.

Washington Street Service Pipe,	$ 465.70	
Sangamon Street " "	319.87	
Canal Street " "	93.60	
Jefferson Street " "	240.38	
Huron Street " "	329.34	
Lake Street " "	447.99	
Monroe Street " "	293.70	
Ohio Street " "	847.38	
Division Street " "	190.94	
Kinzie Street " "	491.75	
Polk Street " "	866.55	
Calumet Avenue " "	661.52	
Randolph Street " "	1,641.69	
Harrison Street " "	777.20	
Park Avenue " "	1,728.90	
Archer Avenue " "	828.20	
Jackson Street " "	339.60	
Chicago Avenue " "	1,270.20	
North Avenue " "	1,713.04	
La Salle Street " "	1,004.11	
Halsted Street " "	1,069.29	
Indiana Street " "	1,426.00	
Canalport Avenue " "	630.79	
Aberdeen Street " "	844.90	
Illinois Street " "	216.32	
Erie Street " "	1,570.91	
Union Street " "	840.46	
Milwaukee Avenue " "	1,309.75	
Market Street " "	1,895.71	
Michigan Avenue " "	995.90	
Twenty-fourth Street " "	51.00	
Wells Street " "	1,416.20	
Washington Street " "	1,640.42	
Sherman Street " "	83.00	
Warren Avenue " "	1,547.75	
Griswold Street " "	285.93	
Twenty-eighth Street " "	113.50	
Sedgwick Street " "	919.21	
Amounts carried forward,	$ 31,408.70	$ 68,143.55 $ 50,7

		Cash Payment.	True Cost.
Amounts brought forward,	$ 31,408.70	$ 68,143.55	$ 50,724.38
Carl Street Service Pipe, . . .	90.00		
Larrabee Street Service Pipe, .	854.68		
Loomis Street " " .	255.25		
South Park Avenue Service Pipe, .	2,785.90		
Superior Street " " .	641.82		
Twenty-sixth Street " " .	609.06		
Ontario Street " " .	683.18		
Michigan Street " " .	254.60		
Kingsbury Street " " .	36.62		
Sheldon Street " " .	66.50		
Green Street " " .	1,112.01		
		38,798.32	
DEDUCT —			
Amount received from Water Service Pipe Assessments, .	$ 41,472.86		
Coal used and charged other Accounts,		$ 2,147.13	
Total Miscellaneous Expense, .		$ 109,089.00	$ 50,724.38

WATER FUND RECAPITULATION.

Total Addition to Water Works brought forward, ...	$ 459,874.17	$ 602,491.20
Total Operating Expenses brought forward, ...	267,065.44	211,973.08
Total Water Loan Interest brought forward, ...	287,089.35	286,549.25
Total Miscellaneous Expense brought forward, ...	109,089.00	50,724.38
Totals, ...	$ 1,123,117.96	$ 1,151,737.91

Total Cash Expenditures, .	$ 1,123,117.96
Balance in Treasurer's Hands, April 1, 1871, . .	1,007,467.87
	$ 2,130,585.83

Total Receipts for the Year,	$ 2,081,918.37
Balance in Treasurer's Hands, April 1, 1870, . .	48,667.46
	$ 2,130,585.83

SEWERAGE DEPARTMENT.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

	Dr.	Cr.
Sewerage Fund in hands of City Treasurer,		$ 222,620.20
Sewers, North Division,	$ 642,574.73	
Sewers, South Division,	866,925.79	
Sewers, West Division,	1,362,987.47	
Sylvester Lynd, Treasurer Sewerage Commissioners,	109,245.48	
Sewerage Loan Bonds six per cent,		87,000.00
" " " seven per cent,		2,593,000.00
" " " cancelled,		320,000.00
" Sinking Fund,		23,708.82
" Loan Interest,	212,978.42	
" Brick,	11,066.72	
" Pipe,	7,215.77	
" Stock,	2.593.90	
American Exchange National Bank,	8,352.57	
Sewerage Sinking Fund in hands of City Treasurer,	10,455.43	
Sewerage Man-hole and Catch-basin Covers,	1,459.50	
House Drains,		7,726.23
Charles Messinger,		339.87
C. T. Bowen,		118.98
Dennis Coughlin,	1,561.51	
Galena and Chicago Union R. R. Com'y.		382.55
Chicago, Burlington, and Quincy R. R. Company,		6,744.01
H. O. Stone,		409.53
J. Y. Scammon,		5,537.00
George C. Walker,		658.23
Polk Street Drains,	695.48	
Filling Twelfth Street,		150.29
South Park Avenue Drains,	2,197.75	
North Avenue Drains,	2,388.50	
Amounts carried forward,	$ 3,242,699.02	$ 3,268,395.71

	Dr.	Cr.
Amounts brought forward,	$ 3,242,699.02	$ 3,268,395.71
West Madison Street Drains,	8,569.73	
Desplaines Street Drains,		72.50
Archer Avenue Drains,	546.00	
Sherman Street Drains,	295.90	
Chicago Avenue Drains,	286.65	
Clybourn Avenue Drains,	386.00	
Indiana Street Drains,	480.48	
Market Street Drains,	461.38	
Illinois Street Drains,	90.72	
Canalport Avenue Drains,	196.10	
Aberdeen Street Drains,	961.00	
Ohio Street Drains,	85.10	
Twelfth Street Drains,	592.20	
Erie Street Drains,	1,348.48	
Van Buren Street Drains,	1,337.50	
Park Avenue Drains,	1,168.44	
Sangamon Street Drains,	407.49	
Union Street Drains,	233.82	
Huron Street Drains,	377.36	
Lake Street Drains,	4,379.60	
Griswold Street Drains,	163.24	
Paulina Street Drains,	797.27	
Prairie Avenue Drains,	231.00	
Twenty-eighth Street Drains,	81.90	
North Wells Street Drains,	2,550.83	
Harrison Street Drains,	810.50	
S. S. Hayes,		1,069.50
	$ 3,269,537.71	$ 3,269,537.71

SEWERAGE FUND.

STATEMENT of Cash Receipts by the Board of Public Works from April 1, 1870, to March 31, 1871, inclusive, and detailed Statement of the cost of the various operations conducted by the Board during the same time: —

RECEIPTS.

Proceeds of 175 Bonds, ...	$ 170,625.00	
Received from City Account of Sewerage Tax, 1870, ...	437,791.68	
House Drain Permits issued, ...	24,048.39	
Construction of Sewers, ...	9,058.20	
Labor and Material, ...	10,593.34	
Freight refunded, ...	16.00	
Private Drain Assessments, ...	36,191.39	
		$ 688,324.00
Balance due Treasurer, April 1, 1871,		222,620.20
		$ 910,944.20

EXPENDITURES.

SEWERS, NORTH DIVISION.

		Cash Payment.	True Cost.
Salaries of Engineers, . . .	$ 1,795.00		
Inspecting and Labor, .	9,402.20		
Constructing Sewer, . . .	20,074.59		
Cement, ...	1,293,92		
Sand, ...	37.81		
Lumber, ...	20.07		
Horse Keeping, ...	51.41		
Car Fares, ...	87.00		
Miscellaneous, ...	15.34		
		$ 32,777.34	
ADD —			
Expense of Sewer North Avenue,	$ 36.80		
" " North Clark Street,	1.76		
" " Wendell Street,	44.00		
" " Sedgwick Street,	38.00		
Amounts carried forward,	$ 120.56	$ 32,777.34	

		Cash Payment.	True Cost.
Amounts brought forward,	$ 120.56	$ 32,777.34	
Expense of Sewer Elm Street,	22.00		
" " Wells Street,	4,219.56		
" " Wesson Street,	642.73		
" " Townsend Street,	55.00		
" " Huron Street,	12.00		
" " Rush Street,	46.00		
" " Vedder Street,	68.00		
" " Grand Haven Street,	24.00		
" " Hobbie Street,	16.00		
Brick used, ...	9,481.93		
Pipe used, ...	7,097.55		
Covers used, ...	1,827.93		
Depreciation in Stock, .	125.00		
Proportion of Discount on Bonds,	5,760.00		
	$ 29,518.26		
DEDUCT —			
Amount received for constructing Sewers, . . .	$ 128.15		
	$ 29,390.11		$ 62,167.45
SEWERS, SOUTH DIVISION.			
Constructing Sewers, . .	$ 19,241.40		
Inspecting and Labor, . .	6,589.86		
Salaries of Engineers, . .	1,240.00		
Cement, ...	779.13		
Car Fares, ...	118.21		
Sand, ...	39.97		
Horse Keeping, ...	51.40		
Lumber, ...	20.07		
Miscellaneous, ...	16.04		
		28,096.08	
ADD —			
Expense of Sewer Prairie Avenue,	$ 68.00		
" " Michigan Avenue,	32.00		
" " Calumet Avenue,	25.50		
" " Twenty-fifth Street,	82.50		
" " Twentieth Street,	25.50		
" " Finnel Street,	24.00		
" " Twenty-second Street	20.00		
Amounts carried forward,	$ 277.50	$ 60,873.42	$ 62,167.45

		Cash Payment.	True Cost.
Amounts brought forward,	$ 277.50	$ 60,873.42	$ 62,167.4
Expense of Sewer Twenty-eighth Street,	11.00		
" " Fifteenth Street,	54.00		
" " Sanger Street,	16.00		
" " Cottage Grove Avenue,	224.25		
" " Douglas Place,	7.50		
Brick used, ...	5,066.50		
Pipe used, ...	5,181.25		
Covers used, ...	1,285.70		
Depreciation in Stock, . . .	175.00		
Proportion of Discount on Bonds,	7,740.00		
For Construction of Sewers, for which Money was advanced,	7,049.26		
	$ 27,087.96		
DEDUCT —			
Amount received for Construction of Sewers, ...	$ 806.46		
	$ 26,281.50		54,377.5

SEWERS, WEST DIVISION.

Inspecting and Labor, .	$ 22,357.76		
Constructing Sewers, . .	7,989.31		
Engineers, ...	1,050.00		
Cement, ...	1,724.38		
Sand, ...	46.48		
Car Fares, ...	135.75		
Repairs of Pipe, . . .	60.60		
Lumber, ...	20.06		
Plumbing, ...	51.03		
Horse Keeping, ...	51.40		
Miscellaneous, ...	56.38		
		33,543.15	
ADD —			
Expense of Sewer Centre Avenue,	$ 11,517.54		
" " Adams Street,	268.50		
" " Halsted Street,	110.00		
" " West Lake Street,	101.50		
" " Fulton Street,	13.00		
Amounts carried forward,	$ 12,010.54	$ 94,416.57	$ 116,545.(

		Cash Payment.	True Cost.
Amounts brought forward,	$ 12,010.54	$ 94,416.57	$ 116,545.03
xpense of Sewer Peoria Street,	683.75		
" " Sangamon Street,	634.35		
" " Aberdeen Street,	44.00		
" " Division Street,	3,625.61		
" " Milwaukee Avenue,	2,966.25		
" " Liberty Street,	332.10		
" " Forquer Street,	106.00		
" " Canalport Avenue,	30.50		
" " Monroe Street,	506.65		
" " Dussold Street,	856.29		
" " Huron Street,	8.00		
" " Indiana Street,	9,453.50		
" " Barber Street,	935.11		
" " Jackson Street,	472.50		
" " Grover Street,	842.50		
" " Catharine Street,	792.19		
" " Augusta Street,	5,528.30		
" " Dussold Street,	52.50		
" " Curtiss Street,	629.19		
" " May Street,	651.98		
" " Wood Street,	778.40		
" " Green Street,	462.50		
" " Hubbard Street,	964.90		
" " Sebor Street,	83.00		
" " Mather Street,	68.50		
" " Ewing Street,	85.00		
" " Erie Street,	4,230.25		
" " Foster Street,	1,011.86		
" " Carpenter Street,	1,228.41		
" " Ann Street,	223.50		
" " O'Brien Street,	752.77		
ick used, ...	31,992.37		
pe used, ...	13,605.95		
vers used, ...	2,884.36		
epreciation in Stock, .	271.66		
oportion of Discount on Bonds,	10,141.71		
Amounts carried forward,	$ 109,946.95	$ 94,416.57	$ 116,545.03

			Cash Payment.	True Cost.
Amounts brought forward,		$ 109,946.95	$ 94,416.57	$ 116,545.03
DEDUCT —				
Amount received for Labor,	$ 80.05			
Amount received for constructing Sewers,	1,290.38	1,370.43		
		$ 108,576.52		142,119.67
REPAIRS SEWERS, NORTH DIVISION.				
Labor,		$ 3,185.87		
Plumbing,		407.91		
Cement,		232.57		
Brick,		34.50		
Horse Keeping,		25.96		
Sand,		7.33		
Nails,		7.08		
Teaming,		4.66		
			3,905.88	
ADD —				
Brick used,		$ 400.00		
Covers used,		125.00		
Depreciation in Stock,		50.00		
		$ 575.00		4,480.88
REPAIRS SEWERS, SOUTH DIVISION.				
Labor,		$ 1,836.75		
Plumbing,		267.67		
Use of Scow,		227.13		
Cement,		141.54		
Assistant Engineers,		125.00		
Brick,		34.50		
Car Fares,		33.50		
Keeping Horse,		25.97		
Repairing Tools,		14.87		
Sand,		14.66		
Teaming,		4.67		
Nails,		7.08		
			2,733.34	
ADD —				
Bricks used,		$ 300.00		
Covers used,		175.00		
Depreciation in Stocks,		60.00		
		$ 535.00		3,268.34
Amounts carried forward,			$ 101,055.79	$ 266,413.92

		Cash Payment.	True Cost.
Amounts brought forward, . .		$ 101,055.79	$ 266,413.92
REPAIRS SEWERS, WEST DIVISION.			
Labor, ...	$ 2,237.00		
Cement, ...	319.00		
Brick, ...	34.50		
Nails, Picks, &c., . .	28.34		
Horse Keeping, . . .	25.97		
Hardware, ...	8.50		
Teaming, ...	4.67		
		2,657.98	
ADD —			
Bricks used, ...	$ 300.00		
Covers used, ...	200.00		
Depreciation in Stocks, .	80.54		
	$ 580.54		
DEDUCT —			
For amount received for repairs,	$ 33.00		
	$ 547.54		3,205.52
CLEANING SEWERS, NORTH DIVISION.			
Labor, ...	$ 3,591.68		
Water used, ...	312.70		
Assistant Engineers, . .	83.33		
Candles, ...	5.76		
Oakum, ...	4.15		
Sewer Spout, ...	2.23		
Oil, ...	1.20		
		4,001.05	
ADD —			
Depreciation in Stock, . .	$ 90.00		
DEDUCT —			
Received from Labor, . .	95.00		
	$ 3,996.05		3,996.05
CLEANING SEWERS, SOUTH DIVISION.			
Labor, ...	$ 7,447.20		
Water used, ...	312.71		
Assistant Engineers, . .	208.33		
Teaming, ...	74.80		
Amounts carried forward,	$ 8,043.04	$ 107,714.82	$ 273,615.49

		Cash Payment.	True Cost.
Amounts brought forward,	$8,043.04	$107,714.82	$273,615.49
Car Fares,	33.50		
Repairing Tools,	14.88		
Candles,	5.77		
Oakum,	4.15		
Sewer Spout,	2.23		
		8,103.57	
ADD —			
Depreciation in Stock,	$110.00		8,213.57
CLEANING SEWERS, WEST DIVISION.			
Labor,	$8,599.16		
Water used,	312.70		
Assistant Engineers,	83.34		
Repairs,	37.00		
Teaming,	21.00		
Candles,	9.02		
Rope,	5.00		
Oakum,	4.14		
Sewer Spout,	2.24		
		9,073.60	
ADD —			
Depreciation in Stock,	$181.08		9,254.68
SEWERAGE STOCK.			
Lumber,	$273.28		
Tools,	260.04		
Repairing Tools,	159.10		
Hardware,	153.50		
Freight,	48.00		
Iron Work,	43.20		
Labor,	25.00		
Plumbing,	18.11		
Repairing Wagon,	62.50		
		1,042.73	1,042.73
SEWERAGE COVERS.			
Lumber,	$2,107.37		
Labor,	1,451.50		
Nails,	383.22		
Freight,	333.30		
Cement,	25.00		
		4,300.39	
Amounts carried forward,		$130,235.11	$292,126.47

			Cash Payment.	True Cost.
Amounts brought forward, . . .			$ 130,235.11	$ 292,126.47
DEDUCT —				
Covers used for Sewers and Repairs, .	$ 6,497.99			
Covers sold, . .	473.50			
Freight refunded, .	16.00			
		$ 6,987.49		
SEWERAGE LOAN INTEREST.				
Remittance to American Exchange National Bank to pay Interest, July, 1870, . .		$ 89,738.79		
Remittance to American Exchange National Bank to pay Interest, January, 1871, .		90,615.97		
Remittance to American Exchange National Bank to pay Gold Premium, . . .		10,502.87		
Paid River Improvement Fund for its Proportion of Tax for 1869 and 1870, . .		240,060.24		
Interest paid in Chicago, .		4,911.28		
			435,829.15	435,829.15
SEWERAGE BRICK.				
Brick purchased, . .		$ 42,264.04		
Labor, ...		487.00		
Advertising, ...		89.14		
			42,840.18	
DEDUCT —				
Brick sold and charged Sundry Sewers, ...		$ 57,442.64		
OFFICE EXPENSE AND SALARIES.				
Salary of Commissioners, .		3,999.96		
" " Secretary, . .		788.50		
" " Superintendent, .		1,000.00		
" " City Engineer, .		1,500.00		
" " Book-keeper, Clerks, &c.,		6,406.92		
" " Janitor and Watchman,		584.00		
Office Rent, ...		2,335.42		
Engineer's Clerks, ...		1,074.03		
Labor, ...		830.58		
Stationery, ...		758.74		
Amounts carried forward,		$ 19,278.15	$ 608,904.44	$ 727,955.62

		Cash Payment.	True Cost
Amounts brought forward,	$ 19,278.15	$ 608,904.44	$ 727,95
Printing,	532.70		
Blank Books,	298.35		
Advertising,	228.10		
Furniture,	150.66		
Revenue Stamps,	141.66		
Brooms, Dusters, &c.,	79.89		
Coal,	73.33		
Gas,	48.49		
Hardware,	34.88		
Paints, Oil, &c.,	22.46		
Subscription to Papers,	20.67		
Miscellaneous,	14.38		
Car Fares,	9.49		
Gas-fitting,	1.17		
		20,934.38	
DEDUCT —			
Amount received for Labor, Licenses, &c.,	$ 676.23		20,258.
PIPE ACCOUNT.			
Pipe purchased,	$ 25,507.40		
Labor,	523.50		
Advertising,	36.82		
		26,067.72	
DEDUCT —			
Pipe sold and charged sundry Sewers,	$ 30,308.30		
SINKING FUND.			
Amount paid Sewerage and River Improvement Sinking Funds for their Proportion of Sewerage Tax, 1870,		93,207.60	93,20
CENTRE AVENUE SEWER.			
J. H. Mallory, constructing Sewer,	$ 668.80		
Kelley & McGrath, constructing Sewer,	10,636.72		
Labor,	195.50		
Plumbing,	16.52	11,517.54	
Amounts carried forward,		$ 760,631.68	$ 841,42

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$760,631.68	$841,421.37
ADAMS STREET SEWER.			
Labor, ...		268.50	
HALSTED STREET SEWER.			
Stone, ...	$30.00		
Labor, ...	80.00		
		110.00	
PRAIRIE AVENUE SEWER.			
Labor, ...		68.00	
NORTH AVENUE SEWER.			
Teaming, ...		36.80	
WEST LAKE STREET SEWER.			
Labor, ...		101.50	
NORTH CLARK STREET AND LINCOLN AVENUE SEWER.			
Cement, ...		1.76	
FULTON STREET SEWER.			
Labor, ...		13.00	
PEORIA STREET SEWER.			
J. H. Mallory, constructing Sewer, ...	$638.75		
Labor, ...	45.00		
		683.75	
CALUMET AVENUE SEWER.			
Labor, ...		25.50	
MICHIGAN AVENUE SEWER.			
Labor, ...		32.00	
WENDELL STREET SEWER.			
Labor, ...		44.00	
SANGAMON STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$596.85		
Labor, ...	37.50		
		634.35	
SEDGWICK STREET SEWER.			
Labor, ...		38.00	
ABERDEEN STREET SEWER.			
Labor, ...		44.00	
Amounts carried forward, . . .		$762,732.84	$841,421.37

		Cash Payment.	True Cost.
Amounts brought forward, ...		$762,732.84	$841,421.3
ELM STREET SEWER.			
Labor, ...		22.00	
DIVISION STREET SEWER.			
Beattey & McNichols, constructing Sewer, . .	$3,407.61		
Laobr, ...	218.00		
		3,625.61	
MILWAUKEE AVENUE SEWER.			
Beattey & McNichols, constructing Sewer, . .	$2,827.75		
Labor, ...	138.50		
		2,966.25	
TWENTY-FIFTH STREET SEWER.			
Labor, ...		82.50	
TWENTIETH STREET SEWER.			
Labor, ...		25.50	
LIBERTY STREET SEWER.			
R. Riley, constructing Sewer,	$296.10		
Labor, ...	36.00		
		332.10	
FORQUER STREET SEWER.			
Labor, ...		106.00	
FINNELL STREET SEWER.			
Labor, ...		24.00	
CANALPORT AVENUE SEWER.			
Labor, ...		30.50	
SOUTH PARK AVENUE SEWER.			
P. D. Bedeker, constructing Sewer, ...	$3,020.18		
Labor, ...	303.50		
		3,323.68	
MONROE STREET SEWER.			
J. H. Mallory, constructing Sewer, ...	$466.65		
Labor, ...	40.00		
		506.65	
DUSSOLD STREET SEWER.			
R. Riley, constructing Sewer,		856.29	
Amounts carried forward, . . .		$774,633.92	$841,241

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$ 774,633.92	$ 841,421.37
TWENTY-SECOND STREET SEWER.			
Labor, ...		20.00	
DIVISION STREET ISLAND SEWER.			
M. Mulaney, constructing Sewer,	$ 2,163.60		
Labor, ...	277.84		
		2,441.44	
HONORE STREET SEWER.			
Labor, ...		8.00	
INDIANA STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 9,275.00		
Labor, ...	178.50		
		9,453.50	
TWENTY-EIGHTH STREET SEWER.			
Labor, ...		11.00	
BARBER STREET SEWER.			
R. Riley, constructing Sewer,	$ 862.61		
Labor, ...	72.50		
		935.11	
JACKSON STREET SEWER.			
J. H. Mallory, constructing Sewer,	$ 444.50		
Labor, ...	28.00		
		472.50	
GROVER STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 800.00		
Labor, ...	42.50		
		842.50	
CATHARINE STREET SEWER.			
R. Riley, constructing Sewer,	$ 713.69		
Labor, ...	78.50		
		792.19	
PAULINA STREET SEWER.			
Labor, ...		57.86	
FIFTEENTH STREET SEWER.			
Labor, ...		54.00	
AUGUSTA STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 5,292.30		
Labor, ...	236.00		
		5,528.30	
Amounts carried forward, . . .		$ 795,250.32	$ 841,421.37

		Cash Payment.	True Cost.
Amounts brought forward, ...		$ 795,250.32	$ 841,421.
DUSSOLD STREET SEWER.			
Labor, ...		52.50	
CURTISS STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 598.69		
Labor, ...	30.50		
		629.19	
MAY STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 623.48		
Labor, ...	28.50		
		651.98	
WOOD STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 734.40		
Labor, ...	44.00		
		778.40	
GREEN STREET SEWER.			
Beattey & McNichols, construct ing Sewer, ...	$ 418.00		
Labor, ...	44.50		
		462.50	
HUBBARD STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$ 830.40		
Labor, ...	134.50		
		964.90	
WELLS STREET SEWER.			
P. O'Brien, constructing Sewer,	$ 3,994.45		
Labor, ...	225.11		
		4,219.56	
SANGER STREET SEWER.			
Labor, ...		16.00	
SEBOR STREET SEWER.			
Labor, ...		83.00	
MATHER STREET SEWER.			
Labor, ...		68.50	
EWING STREET SEWER.			
Labor, ...		85.00	
Amounts carried forward, ...		$ 803,261.85	$ 841,421.

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$803,261.85	$841,421.37
DOUGLAS PLACE SEWER.			
Labor, ...		7.50	
ERIE STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$3,908.25		
Labor, ...	322.00		
		4,230.25	
WESSON STREET SEWER.			
Kelly & Langan, constructing Sewer, ...	$575.23		
Labor, ...	67.50		
		642.73	
TOWNSEND STREET SEWER.			
Labor, ...		55.00	
HURON STREET SEWER.			
Labor, ...		12.00	
FOSTER STREET SEWER.			
R. Riley, constructing Sewer,	$906.36		
Labor, ...	105.50		
		1,011.86	
REES STREET SEWER.			
Labor, ...		46.00	
CARPENTER STREET SEWER.			
Beattey & McNichols, constructing Sewer, ...	$1,177.41		
Labor, ...	51.00		
		1,228.41	
ANN STREET SEWER.			
J. H. Mallory, constructing Sewer, ...	$195.00		
Labor, ...	28.50		
		223.50	
VEDDER STREET SEWER.			
Labor, ...		68.00	
GRAND HAVEN STREET SEWER.			
Labor, ...		24.00	
HOBBIE STREET SEWER.			
Labor, ...		16.00	
Amounts carried forward, . . .		$810,827.10	$841,421.37

		Cash Payment.	Tru
Amounts brought forward, . . .		$810,827.10	$841
O'BRIEN STREET SEWER.			
R. Riley, constructing Sewer,	$708.27		
Labor, ...	44.50		
		752.77	
COTTAGE GROVE AVENUE SEWER.			
Labor, ...		224.25	
Amount paid for Sewers constructed in 1869, and paid for in 1870, ...		5,043.22	
SUNDRY SEWERS.			
Amount paid back for Money which was advanced to construct Sewers, built by private Parties, ...		1,146.27	
HOUSE DRAINS.			
Inspectors and Labor, . .	$9,327.43		
Draughtsmen and Clerks, .	2,100.00		
Advertising, ...	986.30		
Engineers, ...	750.00		
Car Fares, ...	393.10		
Cement, ...	201.42		
Sewer Pipe, ...	185.00		
Hardware, ...	29.50		
Printing, ...	25.00		
Stationery, ...	15.00		
		14,012.75	
ADD —			
Pipe used, ...	$4,413.60		
DEDUCT —			
Amount received for Assessments and Permits issued,	24,048.39		
Net profit, ...	5,622.04		
PRIVATE DRAINS.			
Canal Street Drains, . .	$136.50		
Polk Street Drains, . . .	785.48		
North Wells Street Drains, .	2,732.80		
North Avenue Drains, . .	726.75		
Amounts carried forward,	$4,381.53	$832,006.36	$84

		Cash Payment.	True Cost.
Amounts brought forward,	$ 4,381.53	$ 832,006.36	$ 841,421.37
West Madison Street Drains,	1,228.19		
La Salle Street Drains, . .	467.00		
Halsted Street Drains, .	266.76		
Desplaines Street Drains, .	252.50		
Dearborn Street Drains, .	336.99		
Archer Avenue Drains, . .	546.00		
Sherman Street Drains, .	295.90		
Chicago Avenue Drains, . .	286.65		
Clybourn Avenue Drains, .	386.00		
Indiana Street Drains, . .	480.48		
Market Street Drains, . .	461.38		
Illinois Street Drains, . .	90.72		
Canalport Avenue Drains, .	196.10		
Aberdeen Street Drains, . .	961.00		
Ohio Street Drains, . .	85.10		
Twelfth Street Drains, . .	592.20		
Erie Street Drains, . .	1,348.48		
Van Buren Street Drains, .	1,337.50		
Park Avenue Drains, . .	1,168.44		
Sangamon Street Drains, .	407.49		
Union Street Drains, . .	233.82		
Huron Street Drains, . .	377.36		
Lake Street Drains, . .	5,180.04		
Griswold Street Drains, . .	163.24		
Paulina Street Drains, . .	797.27		
Prairie Avenue Drains, . .	692.00		
Twenty-eighth Street Drains,	81.90		
		23,102.04	
DEDUCT —			
Amount received from Private Drain Assessments, . .	$ 36,117.95		
Total Cash Expenditures,		$ 855,108.40	$ 841,421.37

SEWERAGE SINKING FUND.

RECEIPTS.

Proportion of Sewerage Tax for 1870, ...	$ 46,603.80		
Received from Foreclosure of Mortgage, ...	10,481.90		
		$ 57,085.70	
Balance in hands of Treasurer, April 1, 1870, ...		70,369.73	
			$ 127,455.4

EXPENDITURES.

120 Bonds purchased and cancelled,	$ 117,000.00	
Balance in hands of Treasurer, April 1, 1871,	10,455.43	
		$ 127,455.4

RIVER IMPROVEMENT FUND.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

	Dr.	Cr.
River Improvement Fund in hands of City Treasurer,	$ 192,018.05	
Expense of Survey, previous to adoption of Plan,	1,269.23	
American Exchange National Bank, Coupon Account,	10,325.00	
River Improvement Loan Interest,		$ 26,518.13
Expense of Survey,	35,334.64	
River Improvement Office Expense,	1,582.16	
River Improvement Sinking Fund,	161.02	
River Improvement Bonds, seven per cent,		2,896,000.00
Discount on River Improvement Bonds,	95,682.61	
River Improvement Miscellaneous Expense,	155,757.38	
C. B. Kimball & Co., contractors,	75,286.98	
Sanger, Steel, & Co., "	62,292.59	
Fox, Howard, & Walker, "	128,649.95	
" " "	280,783.08	
" " "	148,686.96	
" " "	258,190.95	
Hosch & Harroon, "	65,914.60	
C. E. Boyer, "	255,260.55	
Hosch & Van Slyck, "	89,635.36	
S. W. Norton, "	75,721.99	
Lee & Graham, "	91,667.05	
J. A. Hendricks & Co., "	49,748.30	
Carkin & Kimball, "	276,220.48	
Hugh Maher, "	103,390.60	
Barnard & Gowen, "	173,668.60	
J. J. Parry, "	230,668.75	
Fox, Howard, & Walker, "	129,274.26	
Amounts carried forward,	$ 2,987,191.14	$ 2,922,518.13

	Dr.	Cr.
Amounts brought forward, . .	$ 2,987,191.14	$ 2,922,518.13
River Improvement Sinking Fund in hands of City Treasurer, . . .		161.02
River Improvement Bonds cancelled,		104,000.00
J. M. Leighton, ...	2,804.64	
River Improvement Salary Account,	36,683.37	
	$ 3,026,679.15	$ 3,026,679.15

RIVER IMPROVEMENT FUND.

STATEMENT of Cash Receipts and detailed Statement of the cost of various operations conducted by the Board of Public Works from April 1, 1870, to March 31, 1871, inclusive: —

RECEIPTS.

Proceeds Sale of 1,169 River Improvement Bonds,	$ 1,143,885.26	
Amount received from City for Tax of 1869 and 1870,	242,790.30	
Amount received for Stone sold,	115.00	
	$ 1,386,790.56	
Balance in hands of Treasurer, April 1, 1870,	152,511.03	
		$ 1,539,301.59

EXPENDITURES.

INTEREST ACCOUNT.		Cash Payment.	True Cost.
Amount of remittance to American National Bank to pay July, 1870, and January, 1871, Interest,	$ 154,384.99		
Coupons paid by City Treasurer,	16,345.00		
		$ 170,729.99	$ 170,729.99
MISCELLANEOUS EXPENSE.			
Pumping at Bridgeport,	$ 20,256.23		
Tolls lost,	25,046.23		
Labor,	12,854.39		
Dredging,	3,058.51		
Two Derricks,	1,150.35		
One Engine,	675.00		
Express on Bonds,	595.93		
Engraving Bonds,	118.50		
Lumber,	80.70		
Powder,	35.00		
Amounts carried forward,	$ 63,870.84	$ 170,729.99	$ 170,729.99

		Cash Payment.	
Amounts brought forward,	$ 63,870.84	$ 170,729.99	$
Miscellaneous Items, .	229.71		
Travelling Expenses, .	29.60		
Stone, &c., ...	1,050.00		
		65,180.15	
DEDUCT —			
Amount received for Stone sold,	$ 115.00		

EXPENSE OF SURVEY AND SALARIES.

Salary of Commissioners, .	$ 6,000.00		
" " Engineer, .	2,708.31		
" " Assistant Engineer, Rodmen, and Axemen,	3,683.14		
		12,391.45	

CONTRACTS.

Fox, Howard, & Walker, .	$ 36,528.00		
" " .	85,572.83		
" " . .	164,087.45		
Hosch & Harroon, .	23,886.35		
C. E. Boyer, . . .	22,690.85		
Hosch & Van Slyck, .	19,391.36		
S. W. Norton, . . .	1,113.01		
Lee & Graham, . .	23,943.30		
Carkin & Kimball, . .	177,732.57		
Hugh Maher, . .	73,188.40		
Barnard & Gowen, . .	123,335.00		
J. J. Parry, . . .	175,070.25		
Fox, Howard, & Walker, .	115,002.76		
J. M. Leighton, . .	2,804.64		
		1,044,346.	
Total Cash Expenditures,		$ 1,292,648.	

RIVER IMPROVEMENT SINKING FUND.

RECEIPTS.

Proportion of Sewerage Tax for 1869 and 1870, . .	$ 101,238.98
Amount due City Treasurer, April 1, 1871, . . .	161.02
	$ 101,400.00

EXPENDITURES.

104 Bonds purchased and cancelled, ...	$ 101,400.00

CITY DEPARTMENT.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

	Dr.	Cr.
Appropriation Fund in hands of City Treasurer,	$ 485,918.19	
North Division,		$ 7,610.35
South "		8,306.81
West "		17,383.45
Office Expense,		91.31
North Division Sidewalks,		940.94
South " "		1,180.04
West " "		408.67
Public Parks,		5,964.36
Public Buildings,		13,145.57
Washington Street Tunnel,		463.49
La Salle Street Tunnel,	1,266.64	
Street Signs,		1,448.28
Street Lamps,		7,784.12
Public Hydrants,	304.21	
Samuel Polkey, Cashier,	308.12	
Warrant, No. 480,		308.12
City Proportional Expense,		3,909.62
House Numbers,		1,909.03
Public Benefits,		291,894.96
Land Damages,		112,374.15
Bridge Department,		1,328.12
Archer Avenue Bridge,		500.00
Reuben Street Bridge,		2,336.94
Erie Street Bridge,		13,795.50
Adams Street Bridge,	19,842.47	
Division Street Bridge,		437.41
Twenty-second Street Bridge,		14,118.39
	$ 507,639.63	$ 507,639.63

BOARD OF PUBLIC WORKS APPROPRIATION FUND.

STATEMENT of the Cash Receipts by the Board of Public Works, from April 1, 1870, to March 31, 1871, inclusive, and detailed Statement of the cost of various operations conducted by the Board during the same time: —

RECEIPTS.

Amount appropriated by Common Council,	$ 1,130,729.25
Received from Special Assessments for Expenses,	69,528.56
" " Permits issued,	5,381.00
" " Repaving Streets,	1,477.06
" " Repairing Walks,	139.57
" for Damages to Bridges,	123.52
" from Numbers,	93.50
" for Labor,	90.25
" " Scale License,	20.50
" " Coal sold,	11.00
	$ 1,207,594.21
Balance in hands of City Treasurer, April 1, 1870,	617,911.33
	$ 1,825,505.54

EXPENDITURES.

NORTH DIVISION.

		Cash Payment.	True Cost.
Labor on Streets,	$ 41,759.00		
Cleaning Streets,	16,927.35		
Lumber,	4,577.12		
Macadam,	1,377.14		
Gravel,	968.02		
Iron and Nails,	657.87		
Filling,	417.23		
Cement,	204.50		
Rent of Lot,	160.00		
Car Fares,	125.00		
Amount carried forward,	$ 67,173.23		

		Cash Payment.	True Co
Amount brought forward,	$67,173.23		
Hardware, Tools, &c.,	84.39		
Cinders,	83.00		
Iron Work,	46.86		
Rope, &c.,	10.50		
		$67,397.98	
DEDUCT —			
Amount received from Street Permits,	5,000.00		$62,3
SOUTH DIVISION.			
Labor on Streets,	$58,444.45		
Cleaning Streets,	37,499.65		
Lumber,	11,403.22		
Gravel,	3,405.50		
Cinders,	2,361.75		
Filling,	2,208.90		
Cement,	903.57		
Moving Stone,	1,261.00		
Iron and Nails,	861.04		
Keeping Street open,	200.00		
Hardware, Tools, &c.,	182.51		
Car Fares,	125.00		
Macadam,	82.50		
Rope, &c.,	5.00		
		118,944.09	
DEDUCT —			
Amount received for Labor,	$1,420.56		
" " " Permits,	14,757.33		
	$16,177.89		102,7
WEST DIVISION.			
Labor on Streets,	$114,834.65		
Cleaning Streets,	30,425.60		
Lumber,	17,667.99		
Macadam,	11,733.61		
Filling,	6,726.00		
Iron and Nails,	1,533.20		
Cinders,	1,246.50		
Water Closets,	1,238.29		
Gravel,	887.50		
Stone,	473.70		
Amounts carried forward,	$186,767.04	$186,342.09	$165,1

		Cash Payment.	True Cost.
Amounts brought forward,	$186,767.04	$186,342.07	$165,164.18
Cement,	443.50		
Hardware,	251.49		
Keeping Street open,	200.00		
Tools, &c.,	172.70		
Freight,	121.00		
Car Fares,	126.00		
Damage to Lot,	30.06		
Sand,	15.85		
		188,127.64	
DEDUCT —			
Amount received for Permits issued,	$5,000.00		
ADD —			
Lumber used, previously paid for,	890.00		
	$4,110.00		184,017.64
SIDEWALKS, NORTH DIVISION.			
Building Walk,	$791.02		
Salary of Superintendent,	400.00		
" " Inspectors,	1,800.00		
Advertising,	6.46		
Hammers,	3.75		
		3,001.23	3,001.23
SIDEWALKS, SOUTH DIVISION.			
Building Walk,	$1,083.62		
Salary of Superintendent,	400.00		
" " Inspectors,	2,700.00		
Advertising,	6.46		
Hammers,	3.75		
		4,193.83	4,193.83
SIDEWALKS, WEST DIVISION.			
Building Walk,	$1,870.19		
Salary of Superintendent,	400.00		
" " Inspectors,	3,547.50		
Advertising,	6.46		
Hammers,	3.75		
		5,827.90	
DEDUCT —			
Amount received from constructing Walk,	$139.57		5,688.33
Amounts carried forward,		$387,492,67	$362,065.21

		Cash Payment.	True Cost
Amounts brought forward, . . .		$387,492.67	$362,065
OFFICE EXPENSES AND SALARIES.			
Salary of Commissioners, . .	$3,999.96		
" " Secretary, . .	1,000.00		
" " Superintendent, . .	1,000.00		
" " City Engineer, . .	1,500.00		
" " Book-keepers and Clerks,	6,940.00		
" " Assistant Engineers, .	12,500.00		
" " Draughtsmen, . .	9,900.00		
" " Special Assessment Clerks,	15,300.00		
" " Rodmen, . . .	5,400.00		
" " Office Clerks, . .	844.26		
" " Messenger, Janitor, and Watchmen, . .	943.00		
Advertising, ...	18,345.64		
Office Rent, ...	2,339.21		
Labor, ...	1,779.33		
Printing, ...	1,759.04		
Cost of Proceeding refunded, .	1,878.00		
Stationery, ...	876.98		
Engraving (Ninth Annual Report),	655.00		
Coal, ...	111.51		
Blank Books, ...	273.41		
Car Fares, ...	178.75		
Hardware, ...	218.69		
Revenue Stamps, ...	341.67		
Notary Fees, ...	232.50		
Horse Feed, ...	348.91		
Furniture, ...	195.25		
Subscription to Papers, . .	81.93		
Miscellaneous Cash Items, . .	98.27		
Gas, ...	67.16		
Paint, Oil, &c., ...	18.01		
Brooms, Dusters, &c., . .	96.12		
Maps, ...	68.06		
Abstract of Union Square, .	40.00		
Ice, ...	31.45		
Repairs of Wagon, ...	32.90		
Rope, ...	6.66		
Gas-fitting, ...	1.17		
		89,402.84	
Amounts carried forward, . . .		$476,895.51	$362,065.

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$476,895.51	$362,065.21
DEDUCT —			
Amount received from Assessments,	$69,528.56		
" " " Licenses,	41.50		
	$69,570.06		19,832.78
LINCOLN PARK.			
Grading, Cindering, building Walks and Drives, planting Trees, and keeping Park in Repair, . .	$25,815.05		
Plumbing Work, ...	3,928.33		
Artesian Well, ...	5,471.10		
Water Closets, ...	2,012.00		
Feed for Animals, ...	465.90		
Lumber, ...	311.07		
Salary of Superintendent, . .	400.00		
" " Inspector, . .	235.00		
Hardware, ...	143.76		
Sewer Pipe, ...	102.15		
Brick, ...	54.00		
Advertising, ...	31.00		
Grass Seed, ...	2.25		
		38,971.61	38,971.61
WASHINGTON PARK.			
Labor, mowing Grass, ...	$11.75		
Grass Seed, ...	2.55		
		14.30	14.30
LAKE PARK.			
Filling, ...	$7,717.09		
Grading, Cindering, building Walks, planting Trees, &c., . .	8,665.70		
Salary of Inspectors, ...	900.00		
" " Superintendent, .	400.00		
Wheelbarrows, ...	156.00		
Lumber, ...	97.46		
Hardware, ...	38.83		
Grass Seed, ...	42.75		
Oil, ...	14.75		
		18,032.58	18,032.58
Amounts carried forward, . . .		$533,914.00	$438,916.48

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$533,914.00	$438,916.48
DEARBORN PARK.			
Building Concrete Sidewalk, .	$1,651.62		
Sprinkling around Park, . .	171.25		
Labor, mowing Grass, . . .	137.20		
Lumber, ...	6.95		
Grass Seed, ...	1.75		
Hardware, ...	1.10		
		1,969.87	1,969.87
ELLIS PARK.			
Building Walks, planting Trees, and keeping Park in Repair, . .	$3,779.08		
Building Fence, ...	613.87		
Lumber, ...	578.67		
Plumbing, ...	259.95		
Tools, ...	168.81		
Maple Trees, ...	45.00		
Evergreens, ...	62.00		
Gravel, ...	51.00		
Grass Seed, ...	34.90		
		5,593.28	5,593.28
UNION PARK.			
Carpenter Work, planting Trees, and keeping Park in Repair, . .	$5,948.82		
Gas Pipe, ...	2,469.69		
Gravel, ...	609.60		
Animal Feed, ...	746.11		
Plumbing, ...	485.62		
Hardware, ...	415.63		
Gas Lamps, ...	501.80		
Water Closet, ...	415.00		
Trees, ...	323.00		
Lumber, ...	302.29		
Wire Work, ...	231.49		
Mowers, ...	133.40		
Salary of Superintendent, . .	100.00		
Oil, ...	49.55		
Cedar Posts, ...	75.00		
Filling, ...	6.40		
		12,813.40	12,813.40
Amounts carried forward, . . .		$554,290.55	$459,293.0

		Cash Payment.	True Cost.
Amounts brought forward, . .		$ 554,290.55	$ 459,293.03
JEFFERSON PARK.			
Grading, Cindering, building Walks, planting Trees, and keeping Park in Repair, ...	$ 11,310.86		
Plumbing Work, ...	2,227.13		
Stone, ...	1,747.22		
Filling, ...	1,500.80		
Water Closets, ...	575.00		
One Fountain, ...	1,200.00		
Lumber, ...	803.75		
Hardware, ...	554.37		
Evergreens, ...	146.00		
Maple Trees, ...	111.75		
Constructing Walk, ...	175.75		
Salary of Superintendent, .	300.00		
One large Vase, ...	144.00		
Drain Pipe, ...	34.50		
Hose, ...	27.50		
Cement, ...	10.00		
		20,868.63	20,868.63
VERNON PARK.			
Labor, ...	$ 1,585.54		
Hardware, ...	15.00		
Lumber, ...	27.16		
		1,627.70	1,627.70
WICKER PARK.			
Labor, ...		15.75	15.75
PUBLIC BUILDINGS.			
COURT HOUSE.			
Coal, ...	$ 2,814.89		
Engineer and Assistants, . .	2,082.00		
Amount transferred to City Hall Fund, ...	10,000.00		
Locks, &c., ...	147.26		
Cleaning, ...	68.00		
Painting, ...	34.60		
Rope, &c., ...	47.70		
Belting, ...	29.04		
Amounts carried forward,	$ 15,223.49	$ 576,802.63	$ 481,805.11

		Cash Payment.	True Cost.
Amounts brought forward,	$ 15,223.49	$576,802.63	$481,805.11
Plumbing,	22.25		
Iron Work,	15.76		
Labor,	9.60		
Letter Box,	8.00		
Brooms,	1.75		
		15,280.85	15,280.85
BRIDEWELL.			
Lumber,	$ 226.31		
Hardware,	23.28		
Plumbing,	29.24		
Labor,	23.50		
Painting,	2.80		
		305.13	
DEDUCT —			
Amount received from Labor,	$ 30.00		
			275.13
CHICAGO CEMETERY.			
Salary of Gate-keeper,	$ 900.00		
Hauling Coal,	.38		
		900.38	900.38
CHICAGO HARBOR.			
Dredging,	$ 106,429.41		
Salary of Harbor Masters,	4,700.14		
Building Dock,	2,936.09		
Inspectors,	1,575.50		
Use of Tug,	1,459.00		
Assessment refunded,	1,758.00		
Repairing Life-boat,	181.67		
Damage to Boat,	286.63		
Assistant Engineer,	163.46		
Rope, &c.,	132.49		
Removing Obstructions,	175.00		
One Scraper,	203.60		
Boring Tools,	66.25		
Hauling Chain,	36.50		
Advertising,	62.00		
Roofing Boat-house,	49.56		
Sounding Bar,	15.00		
Lumber,	27.13		
Miscellaneous Items,	7.65		
		120,265.08	120,265.0
Amounts carried forward,		$ 713,554.07	$ 618.526.5

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$ 713,554.07	$ 618,526.55
HOUSE-MOVING AND STREET PERMITS.			
Salary of Special Constables, .	$ 2,000.00		
Permit Clerk, ...	335.55		
Stationery, ...	41.00		
Badges, ...	24.00		
Permit refunded, ...	5.00		
		2,405.55	2,405.55
STREET SIGNS.			
Putting up Signs, . . .		556.50	556.50
STREET LAMPS.			
New Lamps and Posts, . .		607.29	607.29
PUBLIC HYDRANTS.			
Repairs of Hydrants, . . .		811.86	811.86
HOUSE NUMBERS.			
Salary of Number Clerk, . .		229.00	229.00
WASHINGTON STREET TUNNEL.			
Labor and Material, ...	$ 2,803.55		
Plumbing, ...	199.80		
Castings, ...	194.65		
Coal, ...	142.00		
Cleaning, ...	347.00		
Gas-fitting, ...	67.43		
Tools, ...	73.40		
Whitewashing, ...	75.00		
Salt, ...	55.95		
Oil, ...	49.48		
Brooms, ...	28.25		
		4,036.51	
BRIDGE DEPARTMENT.			
Work on Bridges, ...	$ 12,012.12		
Lumber, ...	7,420.01		
Driving Piles, ...	4,435.50		
Castings, ...	3,339.43		
Assistant Superintendent, .	1,999.92		
Painting Bridges, ...	1,600.94		
Damages to Boats, ...	803.81		
Coal, ...	559.15		
Amounts carried forward,	$ 32,170.88	$ 722,200.78	$ 623,136.75

		Cash Payment.	True Cost.
Amounts brought forward,	$ 32,170.88	$ 722,200.78	$ 623,136.75
Repairing Lamps,	111.32		
Brooms and Shovels,	208.50		
Oil and Paint,	217.46		
Advertising,	186.06		
Chain,	237.81		
Lanterns and Repairs of same,	366.56		
Iron and Nails,	623.81		
Hardware,	210.56		
Cement,	120.75		
Clocks,	18.38		
Car Fares,	59.20		
Rope,	56.43		
Two Bells,	18.00		
Use of Tug,	10.00		
		34,615.72	
DEDUCT —			
Amount received for Damages,	$ 123.52		34,492.20
RUSH STREET BRIDGE.			
Tending Bridge,		2,300.00	2,300.00
STATE STREET BRIDGE.			
Tending Bridge,		1,960.00	1,960.00
CLARK STREET BRIDGE.			
Tending Bridge,		1,940.00	1,940.00
WELLS STREET BRIDGE.			
Tending Bridge,		1,940.00	1,940.00
LAKE STREET BRIDGE.			
Tending Bridge,		1,940.00	1,940.00
RANDOLPH STREET BRIDGE.			
Tending Bridge,		1,760.00	1,760.00
MADISON STREET BRIDGE.			
Tending Bridge,		1,680.00	1,680.00
VAN BUREN STREET BRIDGE.			
Building Abutment,	$ 7,715.56		
Labor,	1,043.88		
Tending Bridge,	1,660.00		
Constructing Walk,	753.52		
Driving Piles,	227.14		
		11,400.10	11,400.10
Amounts carried forward,		$ 781,736.60	$ 682,549.05

		Cash Payment.	True Cost.
Amounts brought forward, . . .		$ 781,736.60	$ 682,549.05
POLK STREET BRIDGE.			
Tending Bridge, ...		1,560.00	1,560.00
TWELFTH STREET BRIDGE.			
Tending Bridge, ...		1,660.00	1,660.00
EIGHTEENTH STREET BRIDGE.			
Tending Bridge, ...		1,440.00	1,440.00
HALSTED STREET BRIDGE.			
Tending Bridge, ...		1,560.00	1,560.00
ARCHER AVENUE BRIDGE.			
Fox & Howard, constructing Bridge, ...	$ 5,500.00		
Tending Bridge, . . .	200.00		
		5,700.00	5,700.00
FULLER STREET BRIDGE.			
Tending Bridge, ...		400.00	400.00
REUBEN STREET BRIDGE.			
Labor and Material, ...	$ 5,163.06		
Tending Bridge, . . .	500.00		
		5,663.06	5,663.06
KINZIE STREET BRIDGE.			
Tending Bridge, ...		1,580.00	1,580.00
INDIANA STREET BRIDGE.			
Fox & Howard, Estimate in full,	$ 1,800.00		
Tending Bridge, ...	1,440.00		
		3,240.00	3,240.00
ERIE STREET BRIDGE.			
Fox & Howard, constructing Bridge, ...	$ 16,204.50		
Tending Bridge, . . .	1,440.00		
		17,644.50	17,644.50
CHICAGO AVENUE BRIDGE.			
Tending Bridge, ...		1,360.00	1,360.00
NORTH AVENUE BRIDGE.			
Tending Bridge, ...		780.00	780.00
CLYBOURN AVENUE BRIDGE.			
Tending Bridge, ...		500.00	500.00
Amounts carried forward, . .		$ 824,824.16	$ 725,636.61

		Cash Payment.	True Cost.
Amounts brought forward, ...		$ 824,824.16	$ 725,636.61
NORTH HALSTED STREET BRIDGE.			
Tending Bridge, ...		1,040.00	1,040.00
THROOP STREET BRIDGE.			
Tending Bridge, ...		1,440.00	1,440.00
WESTERN AVENUE BRIDGE.			
Constructing Bridge, ...	$ 7,372.40		
Tending Bridge, ...	473.33		
		7,845.73	7,845.73
ADAMS STREET BRIDGE.			
Building Viaduct, ...	$ 17,197.21		
Building Abutment, ...	7,228.00		
Tending Bridge, ...	1,170.00		
		25,595.21	25,595.21
DIVISION STREET BRIDGE.			
Fox & Howard, constructing Bridge, ...	$ 14,000.00		
Tending Bridge, ...	1,040.00		
		15,040.00	15,040.00
TWENTY-SECOND STREET BRIDGE.			
Fox & Howard, constructing Bridge, ...		15,881.61	15,881.61
LAND DAMAGES.			
At Polk Street Bridge, . . .	$ 12,592.56		
At Adams Street Bridge, . . .	3,186.29		
At Indiana Street Bridge, . . .	5,000.00		
At Twenty-second Street Bridge,	11,609.00		
		32,387.85	32,387.85

PUBLIC BENEFITS.

Paving Intersection of Streets,	$ 352,998.34		
Labor on Catch Basins, . . .	28,552.51		
Opening and Widening Streets, .	15,515.63		
Cement for Catch Basins, .	4,321.19		
Brick for Catch Basins, . . .	3,914.35		
Lumber for Catch Basins, .	3,149.28		
Improvement of Sidewalks, . . .	3,164.48		
Improvement of Alleys, . . .	1,799.11		
Amount carried forward,	$ 413,414.89	$ 924,054.56	$ 824,867.01

		Cash Payment.	True Cost.
Amounts brought forward,	$ 413,414.89	$ 924,054.56	$ 824,867.01
ilding Return Wall, . .	727.92		
lling Intersections, . .	642.62		
ve Hundred Feet Hose, .	500.00		
ater Service Pipe, . .	153.70		
avel, ...	67.90		
nd, ...	25.76	415,532.79	415,532.79
		$ 1,339,587.35	$1,240,399.80

LA SALLE STREET TUNNEL FUND.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

	Dr.	Cr.
La Salle Street Tunnel Fund in hands of City Treasurer,	$ 85,212.18	
La Salle Street Tunnel Miscellaneous Expenses,	53,925.28	
R. E. Moss, Contractor,	327,459.88	
Discount on La Salle Street Tunnel Bonds,	16,402.66	
La Salle Street Tunnel Bonds,		$ 483,000.00
	$ 483,000.00	$ 483,000.00

LA SALLE STREET TUNNEL FUND.

STATEMENT of the Cash Receipts and detailed Account of work done under the charge of the Board of Public Works during the year ending March 31, 1871:—

RECEIPTS.

Proceeds of 328 Municipal Bonds sold,	$ 319,447.23

EXPENDITURES.

		Cash Payment.	True Cost.
Cement,	$ 18,668.58		
Salary of Inspector,	7,182.07		
" " Engineer, Draughtsman, &c.,	6,166.58		
Labor and Material replacing Sewer,	4,881.32		
Rent of Building destroyed,	1,429.89		
Labor and Material,	510.77		
Damages,	750.00		
Repairing Building,	668.00		
Plumbing,	444.81		
Constructing Walk,	430.90		
Iron Work,	161.03		
Driving Piles,	162.41		
Engraving Bonds,	110.00		
Gas-fitting,	22.40		
Coal,	92.03		
Advertising,	23.25		
Tools,	22.10		
Lumber,	138.91		
		$ 41,865.05	$ 41,865.05
CONTRACT.			
R. E. Moss, on account,		282,361.22	282,361.22
Total Cash Expenditures,		$ 324,226.27	$ 324,226.27

CITY HALL FUND.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

	Dr.	Cr.
City Hall Fund due City Treasurer,		$ 9,054.15
City Hall Bonds,		427,000.00
Discount on City Hall Bonds,	$ 19,917.95	
Miscellaneous Expense,	91,578.52	
W. H. Sinclair,	400.00	
Doyle & Johnson,	1,500.00	
E. E. Sweeney,	17,900.00	
Henry Curtiss,	2,264.75	
N. P. Loberg,	47,500.00	
L. H. Boldenweck,	116,326.93	
Rose & Chapman,	10,000.00	
Allen & Bartlett,	19,656.35	
F. Letz & Son,	52,000.00	
Walworth, Twohig, & Furse,	24,055.18	
J. Hogan,	19,676.83	
A. Knisely,	4,905.64	
R. M. Welch,	4,300.00	
Clark, Raffin, & Co.,	1,675.00	
Stevenson & Kelly,	2,397.00	
	$ 436,054.15	$ 436,054.15

CITY HALL FUND.

STATEMENT showing the Cash Receipts and detailed Account of work done during the year ending March 31, 1871:—

RECEIPTS.

Proceeds of 100 Municipal Bonds,	$ 97,500.00
Amount received from Public Buildings,	10,000.00
	$ 107,500.00

EXPENDITURES.

MISCELLANEOUS EXPENSES.		Cash Payment.	True Cost.
Paid County for one half old Building,	$50,000.00		
Furniture,	15,641.21		
Carpenter Work,	7,339.03		
Bank Chests,	3,430.00		
New Roof,	2,960.00		
Coal,	1,066.65		
Frescoing,	1,129.00		
Iron Lath,	1,055.30		
Tin Cases,	1,277.47		
Cornice Mouldings,	623.00		
Roof,	548.72		
Engraving Bonds,	327.50		
Iron Work,	254.80		
Labor,	357.55		
Covering Roof,	167.23		
Engineer and Foreman,	275.00		
One Mantel,	170.00		
Brooms,	13.50		
Advertising,	77.50		
Miscellaneous,	55.13		
Constructing Drains,	91.05		
Gas,	258.77		
Speaking Tubes,	65.00		
Express,	44.18		
Amounts carried forward,		$ 87.227.59	$ 87,227.59

		Cash Payment.	True Cost.
Amounts brought forward, ...		$ 87,227,59	$ 87,227
CONTRACTS.			
N. P. Loberg, ...	$ 5,000.00		
L. H. Boldenweck, . . .	7,826.93		
Rose & Chapman, ...	2,500.00		
Allen & Bartlett, ...	9,906.35		
F. Letz & Son, ...	5,000.00		
Walworth, Twohig, & Furse, .	2,515.18		
J. Hogan, ...	13,197.00		
A. Knisely, ...	1,611.05		
R. M. Welch, ...	2,300.00		
Clark, Raffin, & Co., . . .	875.00		
Stevenson & Kelly, ...	2,397.00		
E. E. Sweeney, ...	17,900.00		
Henry Curtiss, ...	2,264.75		
Doyle & Johnson, . . .	1,500.00		
W. H. Sinclair, ...	400.00		
		75,193.26	75,193.26
Total Cash Expenditures, ...		$ 162,420.85	$ 162,420.85

CITY BRIDEWELL FUND.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1871.

	Dr.	Cr.
City Bridewell Fund in hands of Treasurer,	$ 109,941.25	
City Bridewell Bonds,		$ 385,000.00
Discount on Bridewell Bonds,	16,272.43	
Kavanagh & Merriman, Contractors,	91,243.54	
John M. Van Osdel, Architect,	5,500.00	
Miscellaneous Expense,	17,729.64	
Clancey, Webb, & Co.,	2,525.30	
Carter Brothers,	73,489.00	
Streeter & Eddy,	15,751.20	
Joseph Hogan,	2,242.54	
Heeney & Campbell,	19,913.48	
J. W. Newell,	4,375.00	
A. Knisely,	8,897.40	
R. Riley,	2,924.13	
Peterson & Patterson,	200.00	
Walworth, Twohig, & Furse,	13,995.09	
	$ 385,000.00	$ 385,000.00

CITY BRIDEWELL FUND.

STATEMENT showing the Cash Receipts and detailed Account of work done during the year ending March 31, 1871:—

RECEIPTS.

Proceeds of 135 Municipal Bonds,	$ 131,625.00
Coal sold,	13.50
	$ 131,638.50

EXPENDITURES.

		Cash Payment.	True Cost.
MISCELLANEOUS EXPENSE.			
Boring Well,	$ 5,234.16		
Watchman,	550.00		
Labor,	213.50		
Travelling Expenses,	160.00		
Advertising,	100.76		
Engraving Bonds,	87.50		
Coal,	62.00		
Use of Carriage,	57.00		
Gas-fitting,	53.73		
		$ 6,518.65	$ 6,518.65
CONTRACTS.			
Kavanagh & Merriman,	$ 1,600.00		
J. M. Van Osdel,	1,500.00		
Clancey, Webb, & Co.,	625.30		
Carter Brothers,	8,489.00		
Streeter & Eddy,	4,251.20		
Joseph Hogan,	2,242.54		
Heeney & Campbell,	2,500.00		
J. W. Newell,	3,375.00		
A. Knisely,	3,897.40		
R. Riley,	680.13		
Walworth, Twohig, & Furse,	13,995.09		
		43,155.66	43,155.66
Total Cash Expenditures,		$ 49,674.31	$ 49,674.31

RECAPITULATION.

RECEIPTS.

Water Fund,	$ 2,081,918.37
Sewerage Fund,	688,324.00
Sewerage Sinking Fund,	57,085.70
River Improvement Fund,	1,386,790.56
River Improvement Sinking Fund,	101,238.98
Appropriation Fund,	1,207,594.21
Tunnel Fund,	319,447.23
City Hall Fund,	107,500.00
City Bridewell Fund,	131,638.50
Total Receipts,	$ 6,081,537.55

EXPENDITURES.

Water Fund,	$ 1,123,117.96
Sewerage Fund,	855,108.40
Sewerage Sinking Fund,	117,000.00
River Improvement Fund,	1,292,648.36
River Improvement Sinking Fund,	101,400.00
Appropriation Fund,	1,339,587.35
Tunnel Fund,	324,226.27
City Hall Fund,	162,420.85
City Bridewell Fund,	49,674.31
Total Expenditures,	$ 5,365,183.50

Respectfully submitted,

E. M. JOHNSON,

Book-keeper.

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